

Erk-1 and Erk-2 kinases (1 hr at RT). This antibody is biotinylated by standard procedures. The bound polyclonal antibody is then quantitated by successive incubations with Europium-streptavidin and Europium fluorescence enhancing reagent in the Wallac DELFIA instrument (time-resolved fluorescence). An increased  
5 fluorescent signal over background indicates a phosphorylation by polypeptide of the present invention or a molecule induced by polypeptide of the present invention.

*Example 42: Assay for the Stimulation of Bone Marrow CD34+ Cell Proliferation*

10 This assay is based on the ability of human CD34+ to proliferate in the presence of hematopoietic growth factors and evaluates the ability of isolated polypeptides expressed in mammalian cells to stimulate proliferation of CD34+ cells.

It has been previously shown that most mature precursors will respond to only a single signal. More immature precursors require at least two signals to respond.  
15 Therefore, to test the effect of polypeptides on hematopoietic activity of a wide range of progenitor cells, the assay contains a given polypeptide in the presence or absence of other hematopoietic growth factors. Isolated cells are cultured for 5 days in the presence of Stem Cell Factor (SCF) in combination with tested sample. SCF alone has a very limited effect on the proliferation of bone marrow (BM) cells, acting in  
20 such conditions only as a "survival" factor. However, combined with any factor exhibiting stimulatory effect on these cells (e.g., IL-3), SCF will cause a synergistic effect. Therefore, if the tested polypeptide has a stimulatory effect on a hematopoietic progenitors, such activity can be easily detected. Since normal BM cells have a low level of cycling cells, it is likely that any inhibitory effect of a given polypeptide, or  
25 agonists or antagonists thereof, might not be detected. Accordingly, assays for an inhibitory effect on progenitors is preferably tested in cells that are first subjected to *in vitro* stimulation with SCF+IL+3, and then contacted with the compound that is being evaluated for inhibition of such induced proliferation.

Briefly, CD34+ cells are isolated using methods known in the art. The cells  
30 are thawed and resuspended in medium (QBSF 60 serum-free medium with 1% L-

glutamine (500ml) Quality Biological, Inc., Gaithersburg, MD Cat# 160-204-101). After several gentle centrifugation steps at 200 x g, cells are allowed to rest for one hour. The cell count is adjusted to  $2.5 \times 10^5$  cells/ml. During this time, 100  $\mu$ l of sterile water is added to the peripheral wells of a 96-well plate. The cytokines that  
5 can be tested with a given polypeptide in this assay is rhSCF (R&D Systems, Minneapolis, MN, Cat# 255-SC) at 50 ng/ml alone and in combination with rhSCF and rhIL-3 (R&D Systems, Minneapolis, MN, Cat# 203-ML) at 30 ng/ml. After one hour, 10  $\mu$ l of prepared cytokines, 50  $\mu$ l of the supernatants prepared in Example 31 (supernatants at 1:2 dilution = 50  $\mu$ l) and 20  $\mu$ l of diluted cells are added to the media  
10 which is already present in the wells to allow for a final total volume of 100  $\mu$ l. The plates are then placed in a 37°C/5% CO<sub>2</sub> incubator for five days.

Eighteen hours before the assay is harvested, 0.5  $\mu$ Ci/well of [3H] Thymidine is added in a 10  $\mu$ l volume to each well to determine the proliferation rate. The experiment is terminated by harvesting the cells from each 96-well plate to a filtermat  
15 using the Tomtec Harvester 96. After harvesting, the filtermats are dried, trimmed and placed into OmniFilter assemblies consisting of one OmniFilter plate and one OmniFilter Tray. 60  $\mu$ l Microscint is added to each well and the plate sealed with TopSeal-A press-on sealing film. A bar code 15 sticker is affixed to the first plate for counting. The sealed plates is then loaded and the level of radioactivity determined  
20 via the Packard Top Count and the printed data collected for analysis. The level of radioactivity reflects the amount of cell proliferation.

The studies described in this example test the activity of a given polypeptide to stimulate bone marrow CD34+ cell proliferation. One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene  
25 therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof. As a nonlimiting example, potential antagonists tested in this assay would be expected to inhibit cell proliferation in the presence of cytokines and/or to increase the inhibition of cell proliferation in the presence of cytokines and a given polypeptide. In contrast, potential agonists tested in this assay would be expected to enhance cell  
30 proliferation and/or to decrease the inhibition of cell proliferation in the presence of

cytokines and a given polypeptide.

The ability of a gene to stimulate the proliferation of bone marrow CD34+ cells indicates that polynucleotides and polypeptides corresponding to the gene are useful for the diagnosis and treatment of disorders affecting the immune system and hematopoiesis. Representative uses are described in the “Immune Activity” and “Infectious Disease” sections above, and elsewhere herein.

*Example 43: Assay for Extracellular Matrix Enhanced Cell Response (EMECCR)*

The objective of the Extracellular Matrix Enhanced Cell Response (EMECCR) assay is to identify gene products (e.g., isolated polypeptides) that act on the hematopoietic stem cells in the context of the extracellular matrix (ECM) induced signal.

Cells respond to the regulatory factors in the context of signal(s) received from the surrounding microenvironment. For example, fibroblasts, and endothelial and epithelial stem cells fail to replicate in the absence of signals from the ECM. Hematopoietic stem cells can undergo self-renewal in the bone marrow, but not in *in vitro* suspension culture. The ability of stem cells to undergo self-renewal *in vitro* is dependent upon their interaction with the stromal cells and the ECM protein fibronectin (fn). Adhesion of cells to fn is mediated by the  $\alpha_5\beta_1$  and  $\alpha_4\beta_1$  integrin receptors, which are expressed by human and mouse hematopoietic stem cells. The factor(s) which integrate with the ECM environment and responsible for stimulating stem cell self-renewal has not yet been identified. Discovery of such factors should be of great interest in gene therapy and bone marrow transplant applications

Briefly, polystyrene, non tissue culture treated, 96-well plates are coated with fn fragment at a coating concentration of  $0.2 \mu\text{g}/\text{cm}^2$ . Mouse bone marrow cells are plated (1,000 cells/well) in 0.2 ml of serum-free medium. Cells cultured in the presence of IL-3 (5 ng/ml) + SCF (50 ng/ml) would serve as the positive control, conditions under which little self-renewal but pronounced differentiation of the stem

cells is to be expected. Gene products of the invention (e.g., including, but not limited to, polynucleotides and polypeptides of the present invention, and supernatants produced in Example 31), are tested with appropriate negative controls in the presence and absence of SCF(5.0 ng/ml), where test factor supernates represent 10% of the total assay volume. The plated cells are then allowed to grow by incubating in a low oxygen environment ( 5% CO<sub>2</sub>, 7% O<sub>2</sub>, and 88% N<sub>2</sub> ) tissue culture incubator for 7 days. The number of proliferating cells within the wells is then quantitated by measuring thymidine incorporation into cellular DNA. Verification of the positive hits in the assay will require phenotypic characterization of the cells, which can be accomplished by scaling up of the culture system and using appropriate antibody reagents against cell surface antigens and FACScan.

One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof.

If a particular polypeptide of the present invention is found to be a stimulator of hematopoietic progenitors, polynucleotides and polypeptides corresponding to the gene encoding said polypeptide may be useful for the diagnosis and treatment of disorders affecting the immune system and hematopoiesis. Representative uses are described in the "Immune Activity" and "Infectious Disease" sections above, and elsewhere herein. The gene product may also be useful in the expansion of stem cells and committed progenitors of various blood lineages, and in the differentiation and/or proliferation of various cell types.

Additionally, the polynucleotides and/or polypeptides of the gene of interest and/or agonists and/or antagonists thereof, may also be employed to inhibit the proliferation and differentiation of hematopoietic cells and therefore may be employed to protect bone marrow stem cells from chemotherapeutic agents during chemotherapy. This antiproliferative effect may allow administration of higher doses of chemotherapeutic agents and, therefore, more effective chemotherapeutic treatment.

Moreover, polynucleotides and polypeptides corresponding to the gene of

interest may also be useful for the treatment and diagnosis of hematopoietic related disorders such as, for example, anemia, pancytopenia, leukopenia, thrombocytopenia or leukemia since stromal cells are important in the production of cells of hematopoietic lineages. The uses include bone marrow cell ex-vivo culture, bone marrow transplantation, bone marrow reconstitution, radiotherapy or chemotherapy of neoplasia.

*Example 44: Human Dermal Fibroblast and Aortic Smooth Muscle Cell Proliferation*

The polypeptide of interest is added to cultures of normal human dermal fibroblasts (NHDF) and human aortic smooth muscle cells (AoSMC) and two co-assays are performed with each sample. The first assay examines the effect of the polypeptide of interest on the proliferation of normal human dermal fibroblasts (NHDF) or aortic smooth muscle cells (AoSMC). Aberrant growth of fibroblasts or smooth muscle cells is a part of several pathological processes, including fibrosis, and restenosis. The second assay examines IL6 production by both NHDF and SMC. IL6 production is an indication of functional activation. Activated cells will have increased production of a number of cytokines and other factors, which can result in a proinflammatory or immunomodulatory outcome. Assays are run with and without co-TNF $\alpha$  stimulation, in order to check for costimulatory or inhibitory activity.

Briefly, on day 1, 96-well black plates are set up with 1000 cells/well (NHDF) or 2000 cells/well (AoSMC) in 100  $\mu$ l culture media. NHDF culture media contains: Clonetics FB basal media, 1mg/ml hFGF, 5mg/ml insulin, 50mg/ml gentamycin, 2%FBS, while AoSMC culture media contains Clonetics SM basal media, 0.5  $\mu$ g/ml hEGF, 5mg/ml insulin, 1 $\mu$ g/ml hFGF, 50mg/ml gentamycin, 50  $\mu$ g/ml Amphotericin B, 5%FBS. After incubation at 37°C for at least 4-5 hours, culture media is aspirated and replaced with growth arrest media. Growth arrest media for NHDF contains fibroblast basal media, 50mg/ml gentamycin, 2% FBS, while growth arrest media for AoSMC contains SM basal media, 50mg/ml gentamycin, 50 $\mu$ g/ml Amphotericin B, 0.4% FBS. Incubate at 37°C until day 2.

On day 2, serial dilutions and templates of the polypeptide of interest are designed such that they always include media controls and known-protein controls. For both stimulation and inhibition experiments, proteins are diluted in growth arrest media. For inhibition experiments, TNFa is added to a final concentration of 2ng/ml (NHDF) or 5ng/ml (AoSMC). Add 1/3 vol media containing controls or polypeptides  
5 of the present invention and incubate at 37°C/5% CO<sub>2</sub> until day 5.

Transfer 60µl from each well to another labeled 96-well plate, cover with a plate-sealer, and store at 4°C until Day 6 (for IL6 ELISA). To the remaining 100 µl in the cell culture plate, aseptically add Alamar Blue in an amount equal to 10% of the  
10 culture volume (10µl). Return plates to incubator for 3 to 4 hours. Then measure fluorescence with excitation at 530nm and emission at 590nm using the CytoFluor. This yields the growth stimulation/inhibition data.

On day 5, the IL6 ELISA is performed by coating a 96 well plate with 50-100 µl/well of Anti-Human IL6 Monoclonal antibody diluted in PBS, pH 7.4, incubate ON  
15 at room temperature.

On day 6, empty the plates into the sink and blot on paper towels. Prepare Assay Buffer containing PBS with 4% BSA. Block the plates with 200 µl/well of Pierce Super Block blocking buffer in PBS for 1-2 hr and then wash plates with wash buffer (PBS, 0.05% Tween-20). Blot plates on paper towels. Then add 50 µl/well of  
20 diluted Anti-Human IL-6 Monoclonal, Biotin-labeled antibody at 0.50 mg/ml. Make dilutions of IL-6 stock in media (30, 10, 3, 1, 0.3, 0 ng/ml). Add duplicate samples to top row of plate. Cover the plates and incubate for 2 hours at RT on shaker. Plates are washed with wash buffer and blotted on paper towels. Dilute EU-labeled Streptavidin 1:1000 in Assay buffer, and add 100 µl/well. Cover the plate and incubate 1 h at RT.  
25 Plates are again washed with wash buffer and blotted on paper towels. Add 100 µl/well of Enhancement Solution and shake for 5 minutes. Read the plate on the Wallac DELFIA Fluorometer. Readings from triplicate samples in each assay are tabulated and averaged.

A positive result in this assay suggests AoSMC cell proliferation and that the  
30 polypeptide of the present invention may be involved in dermal fibroblast

proliferation and/or smooth muscle cell proliferation. A positive result also suggests many potential uses of polypeptides, polynucleotides, agonists and/or antagonists of the polynucleotide/polypeptide of the present invention which gives a positive result. For example, inflammation and immune responses, wound healing, and angiogenesis, as detailed throughout this specification. Particularly, polypeptides of the present invention and polynucleotides of the present invention may be used in wound healing and dermal regeneration, as well as the promotion of vasculargenesis, both of the blood vessels and lymphatics. The growth of vessels can be used in the treatment of, for example, cardiovascular diseases. Additionally, antagonists of polypeptides and polynucleotides of the invention may be useful in treating diseases, disorders, and/or conditions which involve angiogenesis by acting as an anti-vascular (e.g., anti-angiogenesis). These diseases, disorders, and/or conditions are known in the art and/or are described herein, such as, for example, malignancies, solid tumors, benign tumors, for example hemangiomas, acoustic neuromas, neurofibromas, trachomas, and pyogenic granulomas; arteriosclerotic plaques; ocular angiogenic diseases, for example, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, retinoblastoma, uveitis and Pterygia (abnormal blood vessel growth) of the eye; rheumatoid arthritis; psoriasis; delayed wound healing; endometriosis; vasculogenesis; granulations; hypertrophic scars (keloids); nonunion fractures; scleroderma; trachoma; vascular adhesions; myocardial angiogenesis; coronary collaterals; cerebral collaterals; arteriovenous malformations; ischemic limb angiogenesis; Osler-Webber Syndrome; plaque neovascularization; telangiectasia; hemophilic joints; angiofibroma; fibromuscular dysplasia; wound granulation; Crohn's disease; and atherosclerosis. Moreover, antagonists of polypeptides and polynucleotides of the invention may be useful in treating anti-hyperproliferative diseases and/or anti-inflammatory known in the art and/or described herein.

One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof.

*Example 45: Cellular Adhesion Molecule (CAM) Expression on Endothelial Cells*

5           The recruitment of lymphocytes to areas of inflammation and angiogenesis involves specific receptor-ligand interactions between cell surface adhesion molecules (CAMs) on lymphocytes and the vascular endothelium. The adhesion process, in both normal and pathological settings, follows a multi-step cascade that involves intercellular adhesion molecule-1 (ICAM-1), vascular cell adhesion molecule-1  
10 (VCAM-1), and endothelial leukocyte adhesion molecule-1 (E-selectin) expression on endothelial cells (EC). The expression of these molecules and others on the vascular endothelium determines the efficiency with which leukocytes may adhere to the local vasculature and extravasate into the local tissue during the development of an inflammatory response. The local concentration of cytokines and growth factor  
15 participate in the modulation of the expression of these CAMs.

Briefly, endothelial cells (e.g., Human Umbilical Vein Endothelial cells (HUVECs)) are grown in a standard 96 well plate to confluence, growth medium is removed from the cells and replaced with 100  $\mu$ l of 199 Medium (10% fetal bovine serum (FBS)). Samples for testing and positive or negative controls are added to the  
20 plate in triplicate (in 10  $\mu$ l volumes). Plates are then incubated at 37°C for either 5 h (selectin and integrin expression) or 24 h (integrin expression only). Plates are aspirated to remove medium and 100  $\mu$ l of 0.1% paraformaldehyde-PBS(with Ca++ and Mg++) is added to each well. Plates are held at 4°C for 30 min. Fixative is removed from the wells and wells are washed 1X with PBS(+Ca,Mg) + 0.5% BSA  
25 and drained. 10  $\mu$ l of diluted primary antibody is added to the test and control wells. Anti-ICAM-1-Biotin, Anti-VCAM-1-Biotin and Anti-E-selectin-Biotin are used at a concentration of 10  $\mu$ g/ml (1:10 dilution of 0.1 mg/ml stock antibody). Cells are incubated at 37°C for 30 min. in a humidified environment. Wells are washed three times with PBS(+Ca,Mg) + 0.5% BSA. 20  $\mu$ l of diluted ExtrAvidin-Alkaline  
30 Phosphatase (1:5,000 dilution, referred to herein as the working dilution) are added to

each well and incubated at 37°C for 30 min. Wells are washed three times with PBS(+Ca,Mg)+0.5% BSA. Dissolve 1 tablet of p-Nitrophenol Phosphate pNPP per 5 ml of glycine buffer (pH 10.4). 100 µl of pNPP substrate in glycine buffer is added to each test well. Standard wells in triplicate are prepared from the working dilution of the ExtrAvidin-Alkaline Phosphatase in glycine buffer: 1:5,000 ( $10^0$ ) >  $10^{-0.5}$  >  $10^{-1}$  >  $10^{-1.5}$ . 5 µl of each dilution is added to triplicate wells and the resulting AP content in each well is 5.50 ng, 1.74 ng, 0.55 ng, 0.18 ng. 100 µl of pNPP reagent is then added to each of the standard wells. The plate is incubated at 37°C for 4h. A volume of 50 µl of 3M NaOH is added to all wells. The plate is read on a plate reader at 405 nm using the background subtraction option on blank wells filled with glycine buffer only. Additionally, the template is set up to indicate the concentration of AP-conjugate in each standard well [ 5.50 ng; 1.74 ng; 0.55 ng; 0.18 ng]. Results are indicated as amount of bound AP-conjugate in each sample.

15 *Example 46: Alamar Blue Endothelial Cells Proliferation Assay*

This assay may be used to quantitatively determine protein mediated inhibition of bFGF-induced proliferation of Bovine Lymphatic Endothelial Cells (LECs), Bovine Aortic Endothelial Cells (BAECs) or Human Microvascular Uterine Myometrial Cells (UTMECs). This assay incorporates a fluorometric growth indicator based on detection of metabolic activity. A standard Alamar Blue Proliferation Assay is prepared in EGM-2MV with 10 ng /ml of bFGF added as a source of endothelial cell stimulation. This assay may be used with a variety of endothelial cells with slight changes in growth medium and cell concentration. Dilutions of the protein batches to be tested are diluted as appropriate. Serum-free medium (GIBCO SFM) without bFGF is used as a non-stimulated control and Angiostatin or TSP-1 are included as a known inhibitory controls.

Briefly, LEC, BAECs or UTMECs are seeded in growth media at a density of 5000 to 2000 cells/well in a 96 well plate and placed at 37-C overnight. After the overnight incubation of the cells, the growth media is removed and replaced with

GIBCO EC-SFM. The cells are treated with the appropriate dilutions of the protein of interest or control protein sample(s) (prepared in SFM ) in triplicate wells with additional bFGF to a concentration of 10 ng/ ml. Once the cells have been treated with the samples, the plate(s) is/are placed back in the 37° C incubator for three days.

- 5 After three days 10 ml of stock alamar blue (Biosource Cat# DAL1100) is added to each well and the plate(s) is/are placed back in the 37°C incubator for four hours. The plate(s) are then read at 530nm excitation and 590nm emission using the CytoFluor fluorescence reader. Direct output is recorded in relative fluorescence units.

- Alamar blue is an oxidation-reduction indicator that both fluoresces and  
10 changes color in response to chemical reduction of growth medium resulting from cell growth. As cells grow in culture, innate metabolic activity results in a chemical reduction of the immediate surrounding environment. Reduction related to growth causes the indicator to change from oxidized (non-fluorescent blue) form to reduced (fluorescent red) form. i.e. stimulated proliferation will produce a stronger signal and  
15 inhibited proliferation will produce a weaker signal and the total signal is proportional to the total number of cells as well as their metabolic activity. The background level of activity is observed with the starvation medium alone. This is compared to the output observed from the positive control samples (bFGF in growth medium) and protein dilutions.

20

*Example 47: Detection of Inhibition of a Mixed Lymphocyte Reaction*

- This assay can be used to detect and evaluate inhibition of a Mixed Lymphocyte Reaction (MLR) by gene products (e.g., isolated polypeptides).  
25 Inhibition of a MLR may be due to a direct effect on cell proliferation and viability, modulation of costimulatory molecules on interacting cells, modulation of adhesiveness between lymphocytes and accessory cells, or modulation of cytokine production by accessory cells. Multiple cells may be targeted by these polypeptides since the peripheral blood mononuclear fraction used in this assay includes T, B and

natural killer lymphocytes, as well as monocytes and dendritic cells.

Polypeptides of interest found to inhibit the MLR may find application in diseases associated with lymphocyte and monocyte activation or proliferation. These include, but are not limited to, diseases such as asthma, arthritis, diabetes, inflammatory skin conditions, psoriasis, eczema, systemic lupus erythematosus, multiple sclerosis, glomerulonephritis, inflammatory bowel disease, crohn's disease, ulcerative colitis, arteriosclerosis, cirrhosis, graft vs. host disease, host vs. graft disease, hepatitis, leukemia and lymphoma.

Briefly, PBMCs from human donors are purified by density gradient centrifugation using Lymphocyte Separation Medium (LSM<sup>®</sup>, density 1.0770 g/ml, Organon Teknika Corporation, West Chester, PA). PBMCs from two donors are adjusted to  $2 \times 10^6$  cells/ml in RPMI-1640 (Life Technologies, Grand Island, NY) supplemented with 10% FCS and 2 mM glutamine. PBMCs from a third donor is adjusted to  $2 \times 10^5$  cells/ml. Fifty microliters of PBMCs from each donor is added to wells of a 96-well round bottom microtiter plate. Dilutions of test materials (50  $\mu$ l) is added in triplicate to microtiter wells. Test samples (of the protein of interest) are added for final dilution of 1:4; rhuIL-2 (R&D Systems, Minneapolis, MN, catalog number 202-IL) is added to a final concentration of 1  $\mu$ g/ml; anti-CD4 mAb (R&D Systems, clone 34930.11, catalog number MAB379) is added to a final concentration of 10  $\mu$ g/ml. Cells are cultured for 7-8 days at 37°C in 5% CO<sub>2</sub>, and 1  $\mu$ C of [<sup>3</sup>H] thymidine is added to wells for the last 16 hrs of culture. Cells are harvested and thymidine incorporation determined using a Packard TopCount. Data is expressed as the mean and standard deviation of triplicate determinations.

Samples of the protein of interest are screened in separate experiments and compared to the negative control treatment, anti-CD4 mAb, which inhibits proliferation of lymphocytes and the positive control treatment, IL-2 (either as recombinant material or supernatant), which enhances proliferation of lymphocytes.

One skilled in the art could easily modify the exemplified studies to test the activity of polynucleotides (e.g., gene therapy), antibodies, agonists, and/or antagonists and fragments and variants thereof.

It will be clear that the invention may be practiced otherwise than as particularly described in the foregoing description and examples. Numerous modifications and variations of the present invention are possible in light of the above teachings and, therefore, are within the scope of the appended claims.

5       The entire disclosure of each document cited (including patents, patent applications, journal articles, abstracts, laboratory manuals, books, or other disclosures) in the Background of the Invention, Detailed Description, and Examples is hereby incorporated herein by reference. Further, the hard copy of the sequence listing submitted herewith and the corresponding computer readable form are both  
10 incorporated herein by reference in their entireties. Moreover, the hard copy of and the corresponding computer readable form of the Sequence Listing of Serial No. 60/124,270 are also incorporated herein by reference in their entireties.

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Applicant's or agent's file reference number	PA103PCT	International application no.
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <b>American Type Culture Collection</b>	
Address of depositary institution (including postal code and country) <b>10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</b>	
Date of deposit <b>20 May 1997</b>	Accession Number <b>209059</b>
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D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
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The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

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The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

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The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

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**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
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The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

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414

Applicant's or agent's file reference number	PA103PCT	International application
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Address of depositary institution (including postal code and country) <b>10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</b>	
Date of deposit <b>20 May 1997</b>	Accession Number <b>209060</b>
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The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209060

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application N
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209061</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application <b>RO/US</b> <b>03 MAR 2000</b> Authorized officer <u>Richard Harrod</u> <u>PCT/Internat'l Appl Processing Div.</u> <u>(703) 305-3870</u>	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer 
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**ATCC Deposit No. 209061****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209061

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  20 May 1997	Accession Number  209062
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only <b>RO/US 03 MAR 2000</b> Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div. (703) 305-3570	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209062****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209062

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application i
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT <span style="float: right;">Further deposits are identified on an additional sheet <input type="checkbox"/></span>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209063</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) <span style="float: right;">This information is continued on an additional sheet <input type="checkbox"/></span>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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<b>RO/US</b> 20 MAR 2000
Authorized officer <u>Yolanda Harrod</u> PCT/Internat'l Appl Processing Div. (703) 305 3670

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Authorized officer

**ATCC Deposit No. 209063****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection. the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209063

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209064
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application <b>RO/US CS MAR2000</b> Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div. (703) 305-3870	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209064**

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209064

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country)  <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2709</u> <u>United States of America</u>	
Date of deposit <u>20 May 1997</u>	Accession Number <u>209065</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 02 MAR 2000</b> Authorized officer: <u>Glenda Harco</u> <u>PCT Internat'l Appl Processing Div.</u> <u>(703) 305-3370</u>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer:
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**ATCC Deposit No. 209065****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209065

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

432

Applicant's or agent's file reference number	PA103PCT	International application:
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209066
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

For receiving Office use only	For International Bureau use only
<input checked="" type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer RO/US US MAR 2000 Valeria Harrod PCT/Int'l Appl Processing Div. (703) 305-3870	Authorized officer

**ATCC Deposit No. 209066****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209066

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

435

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  20 May 1997	Accession Number  209067
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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<input checked="" type="checkbox"/> This sheet was received with the international application <b>RO/US 13 MAR 2000</b>	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div. (703) 305-3070	Authorized officer

**ATCC Deposit No. 209067**

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209067

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209068
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div. (703) 305-3870	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209068****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 209068

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

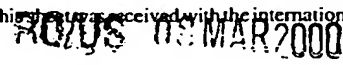
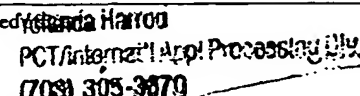
441

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 20 May 1997	Accession Number 209069
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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<input checked="" type="checkbox"/> This sheet was received with the international application <div style="text-align: center;">  </div>	<input type="checkbox"/> This sheet was received by the International Bureau on:
Authorized officer <div style="text-align: center;">  </div>	Authorized officer

**ATCC Deposit No. 209069****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209069

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

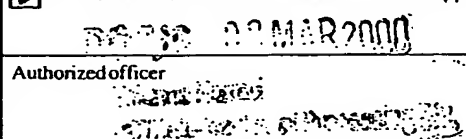
444

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 12 January 1998	Accession Number 209579
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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<input checked="" type="checkbox"/> This sheet was received with the international application	<input type="checkbox"/> This sheet was received by the International Bureau on:
 Authorized officer	Authorized officer

**ATCC Deposit No. 209579**

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209579

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

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#### **NETHERLANDS**

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Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  12 January 1998	Accession Number  209578
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer <b>Yolanda Harrod</b> <b>PCT/Int'l Appl Processing Div.</b> <b>7030 305 3070</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 209578****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 209578

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

450

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 16 July 1998	Accession Number 203067
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer PCT/Intemat'l Appl Processing Ctr 70381 305-3670	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 203067****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203067

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

453

Applicant's or agent's file reference number	PA103PCT	International application
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 16 July 1998	Accession Number 203068
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 08 MAR 2000</b> Authorized officer <b>Yolanda Harrod</b> PCT/Internat'l Appl Processing Div. (703) 305-3070	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on:  Authorized officer
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**ATCC Deposit No. 203068****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2  
ATCC Deposit No. 203068

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application?
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> . line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  1 February 1999	Accession Number  203609
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 09 MAR 2000</b> Authorized officer Yolanda Harrod PCT/Internet Appl Processing Div. (703) 305-6075	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 203609****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203609

**DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

**SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

**NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application f
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  1 February 1999	Accession Number  203610
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 06 MAR 2000</b> Authorized officer: <b>Yolanda Harrod</b> <b>PCT/Internat'l Appl Processing Div.</b> <b>(703) 305-3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer:
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**ATCC Deposit No. 203610****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203610

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection; the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

462

Applicant's or agent's file reference number	PA103PCT	International application f
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  17 November 1998	Accession Number  203485
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 08 MAR 2000</b> Authorized officer <b>Yolanda Harrod</b> <b>PCT/Internat'l Appl Processing Off.</b> <b>(703) 305-3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. 203485**

**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. 203485

## DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## SWEDEN

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

## NETHERLANDS

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

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Applicant's or agent's file reference number	PA103PCT	International application number
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  18 June 1999	Accession Number  PTA-252
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer Yolanda Harrod PCT/Internat'l Appl Processing Div.	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. PTA-252****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

**AUSTRALIA**

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. PTA-252

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

#### **SWEDEN**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Swedish Patent Office), or has been finally decided upon by the Swedish Patent Office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the International Bureau before the expiration of 16 months from the priority date (preferably on the Form PCT/RO/134 reproduced in annex Z of Volume I of the PCT Applicant's Guide). If such a request has been filed by the applicant any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Swedish Patent Office or any person approved by a applicant in the individual case.

#### **NETHERLANDS**

The applicant hereby requests that until the date of a grant of a Netherlands patent or until the date on which the application is refused or withdrawn or lapsed, the microorganism shall be made available as provided in the 31F(1) of the Patent Rules only by the issue of a sample to an expert. The request to this effect must be furnished by the applicant with the Netherlands Industrial Property Office before the date on which the application is made available to the public under Section 22C or Section 25 of the Patents Act of the Kingdom of the Netherlands, whichever of the two dates occurs earlier.

468

Applicant's or agent's file reference number	PA103PCT	International application N°
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <b>American Type Culture Collection</b>	
Address of depositary institution (including postal code and country)  <b>10801 University Boulevard Manassas, Virginia 20110-2209 United States of America</b>	
Date of deposit <b>18 June 1999</b>	Accession Number <b>PTA-253</b>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 00 MAR 2000</b> Authorized officer <b>Nolanda Harrod</b> <b>PCT/Intemat'l Appl Processing Div.</b> <b>(703) 305-3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. PTA-253****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

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**AUSTRALIA**

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**FINLAND**

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

**UNITED KINGDOM**

The applicant hereby requests that the furnishing of a sample of a microorganism shall only be made available to an expert. The request to this effect must be filed by the applicant with the International Bureau before the completion of the technical preparations for the international publication of the application.

Page 2

ATCC Deposit No. PTA-253

## **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

## **SWEDEN**

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## **NETHERLANDS**

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471

Applicant's or agent's file reference number	PA103PCT	International application?
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## INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>72</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution  American Type Culture Collection	
Address of depositary institution (including postal code and country)  10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit  22 December 1999	Accession Number  PTA-1081
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

<input checked="" type="checkbox"/> For receiving Office use only This sheet was received with the international application <b>RO/US 03 MAR 2000</b> Authorized officer <b>Valerie Harrod</b> <b>PCT/International Appl Processing Div.</b> <b>(703) 305-3670</b>	<input type="checkbox"/> For International Bureau use only This sheet was received by the International Bureau on: Authorized officer
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**ATCC Deposit No. PTA-1081****CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

**NORWAY**

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**FINLAND**

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**UNITED KINGDOM**

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Page 2

ATCC Deposit No. PTA-1081

#### **DENMARK**

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

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*What Is Claimed Is:*

1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
- 5
- (a) a polynucleotide fragment of SEQ ID NO:X or a polynucleotide fragment of the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - 10 (c) a polynucleotide encoding a polypeptide fragment of a polypeptide encoded by SEQ ID NO:X or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - 15 (d) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y or a polypeptide domain encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - (e) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y or a polypeptide epitope encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
  - 20 (f) a polynucleotide encoding a polypeptide of SEQ ID NO:Y or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X, having biological activity;
  - (g) a polynucleotide which is a variant of SEQ ID NO:X;
  - 25 (h) a polynucleotide which is an allelic variant of SEQ ID NO:X;
  - (i) a polynucleotide which encodes a species homologue of the SEQ ID NO:Y;
  - (j) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i), wherein said polynucleotide does not
  - 30 hybridize under stringent conditions to a nucleic acid molecule having a nucleotide

sequence of only A residues or of only T residues.

2. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a protein.

5

3. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO:Y or the polypeptide encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

10

4. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

15

5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

20

6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

25

7. A recombinant vector comprising the isolated nucleic acid molecule of claim 1.

8. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 1.

30

9. A recombinant host cell produced by the method of claim 8.

10. The recombinant host cell of claim 9 comprising vector sequences.
11. An isolated polypeptide comprising an amino acid sequence at least  
5 95% identical to a sequence selected from the group consisting of:
- (a) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (b) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone, having biological activity;
  - 10 (c) a polypeptide domain of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (d) a polypeptide epitope of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
  - (e) a full length protein of SEQ ID NO:Y or of the sequence encoded by the  
15 cDNA included in the related cDNA clone;
  - (f) a variant of SEQ ID NO:Y;
  - (g) an allelic variant of SEQ ID NO:Y; or
  - (h) a species homologue of the SEQ ID NO:Y.
- 20 12. The isolated polypeptide of claim 11, wherein the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.
- 25 13. An isolated antibody that binds specifically to the isolated polypeptide of claim 11.
14. A recombinant host cell that expresses the isolated polypeptide of claim 11.
- 30 15. A method of making an isolated polypeptide comprising:

(a) culturing the recombinant host cell of claim 14 under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.

5           16.    The polypeptide produced by claim 15.

17.    A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11 or the polynucleotide of claim 1.

10

18.    A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

(a) determining the presence or absence of a mutation in the polynucleotide of claim 1; and

15           (b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of said mutation.

19.    A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

20           (a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample; and

(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.

25           20.    A method for identifying a binding partner to the polypeptide of claim 11 comprising:

(a) contacting the polypeptide of claim 11 with a binding partner; and

(b) determining whether the binding partner effects an activity of the polypeptide.

30

21. The gene corresponding to the cDNA sequence of SEQ ID NO:Y.
22. A method of identifying an activity in a biological assay, wherein the method comprises:
- 5 (a) expressing SEQ ID NO:X in a cell;
- (b) isolating the supernatant;
- (c) detecting an activity in a biological assay; and
- (d) identifying the protein in the supernatant having the activity.
- 10 23. The product produced by the method of claim 20.

## SEQUENCE LISTING

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Steve Ruben

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Polypeptides

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&lt;223&gt; n equals a,t,g, or c

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&lt;210&gt; 3

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (246)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 3

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ggcacgagaa ccatttccac tatatatcc ttcggataac taraaattaa awtatttggt 60
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tcacgntttt aaatactgtt taatggaaga aaaatacgta gccaggcgtg gtggctcaca 300
cctgtagccc cggaactttg ggagactgaa gcgggcagat cagcaggtca ggag 354

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&lt;210&gt; 4

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (502)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 4

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acgggggcacg gcgagagggt ctgccagata agctgtaggg gctcaggcca cctccctgc 180
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cacctgagcc accctcagca ggagctgggg tggcccctga gctccaacgg ccataacagc 300
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gggttggttg agttgcctag aaccctgcc agggctgggg gtgagaaggg gagtcattac 420
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wraaaaaaaaa aaaaaaaaaac cncggggggg gcc 514

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<210> 5

<211> 2035

<212> DNA

<213> Homo sapiens

<400> 5

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atactgtcaa aacataagca aatgtcgtcg tgtgttgatg gctcaacatt ttgatgaagt 180
atggaactca gaagcatgta acaaaatgtg cgrtaactgc tgtaaagaca gtgcatttga 240
aagaaagaac ataacagagt actgcagaga tctaataaag atcctgaagc aggcagaggg 300
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<210> 6

<211> 1196

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (157)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (998)  
 <223> n equals a,t,g, or c

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 cctgctgata ccgattcccc tgacatttca ggctaaagcc agcaggraag ggctagggac 540  
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<210> 7  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
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 tctatagcat ttgatgttac aactctaagc gtagttcaaa gacatttaaa ttgacaagtt 180  
 accagttaaa gaatttagaa tatattagat cccatctagt attatatatt ttttctagtt 240  
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 aggggtgaamc aatttatctc ctctgggtatt attcttaaac cacagatagg gatagtaggg 360  
 tagtgaaacg mataaatacc tggtagaaga caagagactt gggctctaca cctggctctg 420  
 cactgatttg ctaagtcata ttggcaatca ccacaccctt caggggaatta gtttcatctg 480  
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 aarggaatgt ctgttgatat tctgagtcga ttttcatttg cttttgttcc agaacggtta 600  
 aaataaagca tattatttca tttta 624

<210> 8  
<211> 301  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<400> 8  
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cagtcctga tccgacaggc cagagtgtca atgcgcccc tgctatccag ccattggatg 180  
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c 301

<210> 9  
<211> 686  
<212> DNA  
<213> Homo sapiens

<400> 9  
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cagctgttca tccatttcgt gttttttcct gtcaaacatt aatccagcaa atatatgagg 180  
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catactttaa aagatcaaaa aaaaaa 686

<210> 10  
<211> 397  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (379)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (394)  
<223> n equals a,t,g, or c

<400> 10  
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<210> 11  
<211> 563  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
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<222> (37)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (510)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (562)  
<223> n equals a,t,g, or c

<400> 11  
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<210> 12  
<211> 443  
<212> DNA  
<213> Homo sapiens

<400> 12  
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<210> 13  
<211> 2438  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (681)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (713)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2413)  
<223> n equals a,t,g, or c

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&lt;210&gt; 14

&lt;211&gt; 2347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 14

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gaaaaaaa 2347

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&lt;210&gt; 15

&lt;211&gt; 2006

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (862)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1006)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 15

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ggcagagctg taccagtggc agcagcaagc cgaatagccc cagcatttcc ctttcaatac 60
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<210> 16

<211> 986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (985)

<223> n equals a,t,g, or c

<400> 16

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caaaaccagc tgccacgata cgcatacgtc agggactggg agtgatgcct cccaaagcag 180
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gaactgtcca tacttcagcg gtgtccttac ccagtatgaa tgctgctgtg tccaagactg 300
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gcggcaggtc cctgtcagca ccacggttgt gtccacgtcc caggctggga agttgcctac 420
acggatcaca gttccccctc ctgtgatcag ccagccaatg aagggaaga gcgtgggtcac 480
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cctcacaact atgccagcag gcaactaagc cattgctggc aataagcctg ttagtttcct 600
cactgctcag canttgacg agcttcagca gcaaggtcag gccacacagg tgcgcatcca 660
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cactgttggt gtgactacag ctccgtctcc taaacaggca cctgagcaac aatgattatg 780
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```

<210> 17

<211> 1589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<400> 17

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ttcgaagctc agcccccccc cctcattttg gatataggtc agtgaaggcc caggagagg 180
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gagtcagggt tggggttcgt gaaaggggtg ctgcttcct ctgcctgtcm ctctcaggca 480
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agaaagaaaa ataaaaaaaa aaaaaaaaaa 1589

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<210> 18

<211> 846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 18

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gcgcccattg tgccactgca ccagaagcag agccgcatca ccccatcca gaagccgcgg 120
ggcstcgacc ctgtggagat cctgcaggag cgcgagtaca ggctgcaggc tcgcatcgca 180
caccgaattc aggaacttga aaaccttccc gggctccctg ccggggattt gcgaaccaa 240
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gtggtggtgt gcatgaggag ggacacagcg ctggagacag ccctcaatgc taaggcctac 360
aagcgcasaa gcgccagtcc ctgctgcagg cccgcatcac tgagaagctg gagaagcagc 420
agaagatcga gcaggagcgc aagcgccggc agaagcacca ggaatacctc aatagcattc 480
tccagcatgc caaggatttc aaggaatatc acagatccgt cacaggcaaa atccagaagc 540
tgaccaaggc agtggccacg taccatgcca acacggagcg ggagcagaag aaagagaacg 600
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cggtatg
846

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<210> 19  
<211> 2192  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (115)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2106)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2118)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2143)  
<223> n equals a,t,g, or c

<400> 19  
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actatacctg aaatgggctc ttgaagagta tctggatgaa tttgaccctt gtcattgccg 180  
gccttgctca aatgggtggt tggctactgt tgaggggacc cattgtctgt gccattgcaa 240  
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ggttgatgga gggtggagtt gctggtcctc ttggagcccc tgtgtccaag ggaagaaaac 360  
aagaagccgt gratgcaaka acccacctcc cagtgggggt gggagatcct gcgttgga 420  
aacgacagaa agcacacaat gcgaagatga ggagctggag cacttgaggt tgcttgaacc 480  
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gcctcccaaa gtgctgggat acagacatga ac                                     2192

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&lt;210&gt; 20

&lt;211&gt; 1011

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (54)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 20

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cggggatgga agcgtttttg gggctcgcggt ccggactttg ggcggggggt ccggcccccag 120
gacagtttta ccgcattccr tccactcccg attccttcat ggatccggcg tctgcaacttt 180
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gctatgctga tggagagagc ttcctcggtt atgtggacat gcttgggtga gcctatgaag 600
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&lt;210&gt; 21

&lt;211&gt; 2019

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2003)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2007)

<223> n equals a,t,g, or c

<400> 21

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gcggtgagcc ccatgggggtg tgggggaagg agcaaggact ccatcgccct tcccaaagg 240
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aaaaaaaaat tctcgggggg ggnccngta cccaattgg 2019
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<210> 22

<211> 2022

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 22

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tgtgacgcca ctcaccttta ctgaggtgca cgagggccgt gctgacatca tgatcgactt 180
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tgtgtgtaca gtgtgtataa accttcttct tctttttttt ttttaaaactg aggattgtca 1920
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aaaaaaaaaa aaaaaggggcg gccgctcgcg atctagaact ag 2022
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<210> 23

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<400> 23

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gtaaactgtg gacgggggaa agccaagggtc tggagaagct cccaggaaca ayygatggcc 180
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ccccaggagg aaagatgagc ttttctaggc tacaattttc tcccaggaag ctttgatttt 300
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tctcctccaa gacactgtgg acttggtcac cagctcctcc cttgttctct aagttccact 480
gagctccatg tgccccctct accatttgca gagtcctgca cagttttctg gctggagcct 540
agaacaggcc tcccaagttt taggacaaac agctcagttc tagtctctct ggggccacac 600
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gtgatactga aacacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaan 1126
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<210> 24

<211> 2598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2553)

<223> n equals a,t,g, or c

<400> 24

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agttcctatt gattcatcag attttgcatt ggatattcgc atgcctgggg ttacacctaa 180
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gattgacttc aagcctcgag ccagcatgga tactgtccat cacatgttac tttttggatg 300
caatatgcct tcatccactg graattactg gttttgtgat gaaggaaacct gtacagataa 360
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tggattcaga gttggaggag agactggaag taaatacttt gtactacagg tacactatgg 480
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&lt;210&gt; 25

&lt;211&gt; 411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 25

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gcaccagat gccaggcg aggtgcgctt gtctgtaccc ccgctggtgg aggtgatgcg 180
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ctctgagctc caggtcacaa tgcacgacac ccggggccgc agtcccccat accagctnng 360
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<210> 26

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 26

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cagccccctc tcccttcctc cattgcacat gaacatatgt ccatccatat atattcatca 180
gaatgttaat ttattttgct ccctctgtta ggtccatttt ctaagggtag aagaggcaag 240
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gacatgggaa aaaccactgc tatgccatth cttctctctg ttcccttcc ccccccgac 420  
ggtgtggctg atgatgtctt ctggtgtcat ggtgaccacc cctgttccc tgttctggta 480  
tttcccctgt cagtttcccc tctcggccag gttgtgtccc aaaatccct cagcctcttc 540  
tctgcacgtt gctgaaggtc caggcttgcc tcaagttcca tgcttgagca ataaagtgga 600  
aacaataaaa cctgggaaaa aaaaaaaagg gggncgttct aaaggatccc cnagggg 657

<210> 27

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 27

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<210> 28

<211> 1333

<212> DNA

<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1319)  
<223> n equals a,t,g, or c

<400> 28  
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<210> 29  
<211> 1327  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (573)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1307)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1325)  
<223> n equals a,t,g, or c

<400> 29  
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<210> 30  
<211> 709  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (696)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (701)  
<223> n equals a,t,g, or c

<400> 30

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aaaaaaaaacc ycgggggggg gcccgttacc caattngccc nttaggggg 709

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&lt;210&gt; 31

&lt;211&gt; 1108

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (389)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (397)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 31

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aagaaggtgg aggagaagaa gaccaggact atgacttgag ccagctgcag cagcctgaca 180
ctgtggagcc tgatgccatc aagcctgtgg gaatcygacg aatggatgaa agacccatcc 240
acgccgagcc ccagtatccg gtccgatctg cagccccaca ccctggagac attggggact 300
tcattaatga gggccttaaa gcggctgaca atgacccac agctccacca tatgactccc 360
tgttagtgtt tgactatgaa ggcagtggnt ccactgntgg gtccttgagc tcccttaatt 420
cctcaagtag tgggtgtgag caggactatg attacctgaa cgactggggg ccacggttca 480
agaaacttgc tgacatgtat ggtggagggtg atgactgaac ttcaggggtga acttggtttt 540
tggaacaagta caaacaattt caactgatat tccccaaaag cattcagaag ctaggcttta 600
actttttagt ctactagcac agtgcttgct ggaggctttg gcataggctg caaaccaatt 660
tgggctcaga gggaatatca gtgatccata ctgtttggaa aaacactgag ctgagttaca 720
cttgaatttt acagtacaga agcactggga ttttatgtgc ctttttgtag ctttttcaga 780
ttggaattag ttttctgttt aaggctttaa tggtagtgat ttctgaaacg ataagtaaaa 840
gacaaaatat tttgtggtgg gagcagtaag ttaaaccatg atatgcttca acacgctttt 900
gttacattgc atttgctttt attaaaatac aaaattaaac aaamaaaaaa actcatggag 960
cgattttatt atcttggggg atgagaccat gagattggaa aatgtacatt acttctagtt 1020
ttgacttta gtttgttttt tttttttttt cactaaaatc ttaaaactta ctcagctggt 1080
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&lt;210&gt; 32

&lt;211&gt; 526

<212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> misc feature  
 <222> (502)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (524)  
 <223> n equals a,t,g, or c

<400> 32  
 gaatttttca ttatgttgct tttgaaattt gatgcattcc tcccatttac tttattattg 60  
 tacacattta acacacagta gcaaattttg aacgatgtga ttgatataac ctaacaaatc 120  
 tgagccagtt attattagag ttgcagaata gaaacttgaa gtgctaaatg gaataatcca 180  
 aaggaaattt tttaaagca ggttctagct gaaaaattca actataagaa aattgtattt 240  
 atataacatt tactattttt gaagactagt gagatttctg taataatttt aattctttaa 300  
 aaagtgaag cttgttgtaa agatattttc tttttgttat tagaaggaaa taaaaagaga 360  
 aaaaatttct tctttcatgg ggcatttgat aatttcagtc tttgacgatt tgtaagccta 420  
 gaatatacta agctgaataa cagctcttgg gcctcagaat tttccagtag ccagtawttc 480  
 yggattaact aagttggaaa cncytattag gaacctccag tggnga 526

<210> 33  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (494)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (521)  
 <223> n equals a,t,g, or c

<400> 33  
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 gctgtgtgcg cagggcccg caccggactg ggaccctggc gtccctccag gccttgccctc 120  
 ctgcgaggags acagtttggc ttactttctc tgacccagc ctgcggccgta aagtgaagaa 180  
 gaccggacca gcttcagctt tcggactctg gttcttggat cgtgtcctct cccctcggc 240  
 gccctcttcc cccaatctga gccattkacg gcctctgcct gckgccccct ctctcctcgg 300  
 gatcgggtcc ccagagccac catctcctga gcctcccacc ccgctgcctg ggccctgtgg 360  
 ttgctgggcc tcccacctca aggaggggaa ggttgtacag cccgaacctg tggagcaatg 420  
 ccctgtctgg cctccaaaac caaaaataaa ctgggtcact ttacaaaaaa aaaaaaaaaa 480  
 aagggcccg gaanaccgga ccggtacctg caggcgtacc ngtttcccta tagtgagttg 540  
 tattagcgtt gcata 555

<210> 34  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (288)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (328)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (335)  
 <223> n equals a,t,g, or c

<400> 34  
 gggctcgaccc acgcgtccgg accgcgcggc tagtggtgtg aggatctgag ccccggtggtg 60  
 ggggggtggag gcggctcctg cratctaaag ggacttgaga ctctcaccgg ccgcgcgcca 120  
 tgagggccct gtgggtgctg ggcctctcct gctcctgct gaccttcggg tcgggtccgar 180  
 ctgaygatga agtcgatgtg gatggtacag tgggaagagga tctgggtaaa agtagagaag 240  
 gttcaaggac agatgatgaa gtagtacaga gagaggaaga agctattnca gttggatgga 300  
 ttaaatgcat cccaaataag agaacttnag agagnaagtc cagaaaa 347

<210> 35  
 <211> 750  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (701)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (731)  
 <223> n equals a,t,g, or c

<400> 35  
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 ttctggctcc ttccagccat ggctctcaga gtccttctgt taacagcctt gaccttatgt 120  
 catgggttca acttggacac tgaaaacgca atgaccttcc aagagaacgc aaggggcttc 180  
 gggcagagcg tgggtccagct tcagggatcc aggggtggtg ttggagcccc ccaggagata 240  
 gtggctgcca accaaagggg cagcctctac cagtgcgact acagcacagg ctcatgagag 300  
 cccatccacc tgcagggtccc cgtggaggcc gtgaacatgt ccctgggcct gtccctggca 360  
 gccaccacca gccccctca gctgctggcc tgtggtccca ccgtgcacca gacttgacgt 420

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gagaacacgt atgtgaaagg gctctgcttc ctgtttggat ccaacctacg gcagcagccc 480
cagaagttec cagaggccct ccgaggggtgt cctcaagarg atagtacat tgccttcttg 540
attgatggct ctggtagcat catcccacat gactttcggc ggatgaagga rtttgtctca 600
actgtgatgg agcaattaaa aaagtccaaa accttgttct ctttgatgca gtactctgaa 660
gaattccgga ttcactttac ttcaaagagt tccagaacaa ncctaaccce agatcactgg 720
tgaagccaat nacgcagctg cttggggcgg 750

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<210> 36

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<400> 36

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aagaaaaatg tactacgcct gtcctgtang aagctgaaga tttttgcaat gcccatgcag 60
gatatcaaga tgatcctgaa aatgggtgcag ctggactcta ttgaagattt gggaagtgc 120
ttgtacctgg aagctaccca ccttggcgaa attttctcct tacctgggcc agatgattaa 180
tctgcgtaga ctctctctct cccacatcca tgcattctcc tacatttccc cggagaagga 240
agagcagtat atgccccagt tcacctctca gttcctcagt ctgcagtgcc tgcagctnct 300
ctatgtggac tctttathtt tccttagagg ccgcctggat cagttgctca ggcacgtgat 360
gaaccccttg gaaacccctc caataactaa ctgccggctt tcggaagggg atgtgatgca 420
tctgtcccag agtcccagcg tcagtcagct aagtgctctg agtctaagtg gggcatgct 480
gaccgatgta agtcccagcg ccctccaagc tctgctggag agagcctctg ccaccccca 540
ggacctgggtc tttgatgagt gtgggatcac ggatgatcag ctcttgccc tcctgccttc 600
cctgagccac tgcctccagc ttacaacctt aagcttctac gggaattcca tctccatata 660
tgccttgacg agtctcctgc agcacctcat cgggntgagc aatctgacct acgtgctgta 720
tcctgtcccc ctggagagtt atgaggacat ccatggtamc ctccamctgg agagggtgct 780
atctgcatgc caggntcagg gagttgctgt gtgarttggg gcggcccagc atgggtcttg 840
cttagtgggc aacccctgtc ctactgtgg ggacagaacc ttctatgacc cggagcccat 900
cctgtgcccc tgtttcatgc ctaatarctg ggtgcacata tcaaatgctt cattctgcat 960
acttgacac taaagccagg atgtgcatgc atcttgaagc aacaaagcag ccacagtttc 1020
agacaaatgt tcagtgtgag tgaggaaaac atgttcagtg agggaaaaac attcagacaa 1080

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atgttcagtg aggaaaaaaaa ggggagttgg ggataggcag atgttgactt grggagktaa 1140
tgtgatcttt ggggagatac atcttataga gttagaaata gaatctgaat ttctaaaggg 1200
agawtctggc ttgggaagta catgtaggag ttaatccctg ttagactgt tgtaaagaaa 1260
ctgttgaaaa taaagagaag caatgtgaag c                               1291

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<210> 37

<211> 1535

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1526)

<223> n equals a,t,g, or c

<400> 37

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ggcacgaggg tacgcagagc ttcgtcttcc agcgcgaaga gatagcgag ttggcgcggc 60
agtacgctgg gctggaccac gagctggcct tctctcgtct gatcgtggag ctgcggcggc 120
tgcacccagg ccacgtgctg cccgacgagg agctgcagtg ggtgttcgtg aatgcgggtg 180
gctggatggg cgccatgtgc cttctgcacg cctcgtctgc cgagtatgtg ctgctcttcg 240
gcaccgcctt gggctcccg cggcactcgg ggcgctactg ggctgagatc tcggatacca 300
tcattctctg cacttccac cagtggagag agggcaccac caaaagttag gtcttctacc 360
caggggagac ggtagtacac gggcctggtg agggcaacagc tgtggagtgg gggccaaaca 420
catggatggg ggagtacggc cggggcgctc tcccatccac cctggccttc gcgctggccg 480
acactgtctt cagcaccag gacttccctc ccctcttcta tactcttcgc tcctatgctc 540
ggggcctccg gcttgagctc accacctacc tctttggcca ggacccttga ccagccaggc 600
ctgaaggaag acctgcggat ggacaggagc gggcaggccc gcacatatcc acttgctgga 660
gcccatgttt acagacaggg acatacacca tgcagatcct gatttcctgc tgtatgagca 720
gggatatcca tgcttatgta tccaaacaca gagacccatg ggaacaaatg agacacatat 780
agatactgag acctgtgtgt acagttagac catgcactca caccatctg gagagggagc 840
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actgaggcct ttccatagct ccacagcttc ccacctctc cccaccaaac cggggttcta 960
gagttaagga tgggggaggg tattatactg cctcagctctg actcctcaac ccagcagcaa 1020
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gatgcccttc cccttctccc ctgtcctcac catatgcctt atccccattc tactccccctg 1140
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acgagagtaa tttgaagaat gcttgaagtc agcgtcttcc attccagaaa gacccccatt 1260
cttcctttgg gggatgatg tggaaagctg ttccagccca ggaccaccca ctgaggagag 1320
gatctagaca ggtgggccta attccaaggg gcccttctcg gcctggagaa ggccttttac 1380
acacacacaa cacatacaca cacacacaca canacacata tcacagtttt cacacagccc 1440
ctgctgcatt ctctgtccat ctgtctgttt ctattaataa agatttggtg atctgttcca 1500
aaaaaaaaaa aaaaaaaaaa aaaaangggg gggct                               1535

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<210> 38

<211> 295

<212> DNA

<213> Homo sapiens

<400> 38

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ctgggtcacac tattacatgc catgcaggca cgcgataaaa cgctggggct ggcaacactg 60
tgcattggcg gcggtcaggg aattgcgatg gtgattgaac ggttgaatta atcaataaaa 120
acacccgata gcgaaagtta tcgggtgttt tcttgaacat cgacggcgaa ggtaacccca 180
ttaatcacca gtcaaaactt ttcaccagcg tctctcgcca gcattacgca tcggtacaat 240
aaatgtttcc tgtttctcat tgaccgatcc ttcctcggtg atcagcgtca ttggg      295
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<210> 39

<211> 1300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1298)

<223> n equals a,t,g, or c

<400> 39

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gcggactggc agggggcagg gaagctcaaa gatctgggggt gctgccaggga aaaagcaaat 60
tctggaagtt aatgggtttt agtgattttt aaatccttgc tggcggagag gcccgccctct 120
ccccggtatc agcgcttccct cattctttga atccgcggct ccgcggtctt cggcgtcaga 180
ccagccggag gaagcctgtt tgcaatttaa gcgggctgtg aacgcccagg gccggcgagg 240
gcggggccga ggcgggccat tttraataaa gaggcgtgcc ttccaggcag gctctataag 300
traccgccgc ggcgagcgtg cgcgckttgc aggtcactgt agcgggactt cttttggttt 360
tctttctctt tggggcacct ctggactcac tcccagcat gaaggcgtg agcccggtgc 420
gcggctgcta cgagcggtg tgctgcctgt cggaacgcag tctggccatc gcccggggcc 480
gaggaaggc cccggcagct gaggagcgc tgagcttgct ggacgacatg aaccactgct 540
actccgcct gcggraactg gtaccgcgag tcccagagg cactcagctt agccagggtg 600
aaatcctaca gcgcgtcatc gactacattc tcgacctgca ngtagtctg gccgagccag 660
cccctggacc ccctgatggc ccccaccttc ccatccagac agccgagctc gctccggaac 720
ttgtcatctc caacgacaaa aggagctttt gccactgact cggccgtgtc ctgacacctc 780
cagaacgcag gtgctggcgc ccgttctgcc tgggaccccg ggaacctctc ctgccggaag 840
ccggacggca gggatgggcc ccaacttcgc cctgccact tgacttcacc aaatcccttc 900
ctggagacta aacctggtgc tcaggagcga aggactgtga acttgtggcc tgaagagcca 960
gagctagctc tggccaccag ctgggcgacg tcacctgct cccacccac cccaagtctc 1020
taaggctctt tcagagcgtg gaggtgtgga aggagtggct gctctccaaa ctatgccaa 1080
gcggcgccag agctggtctt ctggtctcct tggagaaagg ttctgttgcc ctgatttatg 1140
aactctataa tagagtatat aggtttttgt ctttttttac aggaagggtga ctttctgtaa 1200
caatgcgatg tatattaac tttttataaa agttaacatt ttgcataata aacgattttt 1260
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aaacaaaaaa aaaaaaaaaa aagggggggcc gccctannng

1300

<210> 40

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 40

cagaaacaga agttcacact aacagagtat ggttttaatt ttcctttgaa tgaaaaggat 60  
agaaagataa aattgtgtat tgtaacatg taaataaaat tggagctaata ttgaaactag 120  
cttctcaata acttcattctt tctagagact cattacctgt gggcttgctm aacctggact 180  
atttggccaa atwgggttga taaaaaagggn atntt 215

<210> 41

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<400> 41

tcgacccacg cgtccgggag actacggtaa aggcgcgcgc acgcagccaa catgccgggtg 60  
gcccgagct ggggttgctg caagnctacg tgaccctctg gaggcccttt gagaagtcgc 120

```

ggctcgacca agagctgaag ctgataggcg agtacgggct ccggaacaaa cgtgaggtgt 180
ggaggggtcaa gttcaccctg gccaaagatcc gcaagnccgc gcgggarctg ctgacgctgg 240
acgagaagga cccgcggcgc ctgtttgagg gcaatgcctt gcttcggcga ctggtgcgca 300
ttggagtgtt ggacgagggc aagatgaagc tggattatat cctgggtctg aagatgagga 360
ttcttggaga grcntctgca gaccaggtt tttcaagctg gggttggcca atccatccac 420
catgccctgt gctgatccgc caggccacnc aggtccgaaa gcaagtgggtg aaca 474

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<210> 42

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 42

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cctcgccttc gatgaatatg ggcgcccttt cctcatcatc aaggatcagg atcgcaagtc 60
tcgtcttatg ggactggagc tctcaagtct catatcatgg cggcaaaggc tgtagcaaat 120
accatgagaa catcacttgg accaaatgga cttgataaaa tgatggtgga caaggacggc 180
gacgtgacgg tcacaaacga cggtgccacg attctgagca tgatggatgt cgatcaccag 240
attgccaaagc tgatggtgga gctgtccaaa tcccaggatg atgaaatcgg agatggggac 300
cacgggggtg gttgtcctgg ccggcgccct gctggaagga ggccgagcag ctgctggacc 360
gcggcattca mccgntcagg atcgccgacg gttacgagca ggntgcccgc attggccntc 420
gagca 425

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<210> 43

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1149)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1156)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1160)  
 <223> n equals a,t,g, or c

<400> 43  
 tgtgggaact ggtgggtccc ccgggctggc agnaattggg nacgcgggtc gcggttcttg 60  
 tttgtggatc gctgtgatcg tcaacttgaca atgcagatct tcgtgaagac tctgactggg 120  
 aagaccatca ccctcgaggt tgagcccagt gacaccatcg agaattgtcaa ggcaaagatc 180  
 caagataagg aaggcatccc tcctgaccag cagaggctga tctttgctgg aaaacagctg 240  
 gaagatggkc gcaccctgtc tgactacaac atccagaaaag agtccaccyt gcacctggtr 300  
 ctccgtctca gaggtgggat gcaaattctt gtgaagacac tcaactggcaa gaccatcacc 360  
 cttgaggtcg agcccagtga cacyatcgag aacgtcaaag caaagatcca rgacaaggaa 420  
 ggcatttcctc ctgaccagca gaggttgatc ttgcccggaa agcagctgga agatgggctg 480  
 accctgtctg actacaacat ccagaaagag tctaccctgc acctggtgct ccgtctcaga 540  
 ggtgggatgc agatcttcgt gaagaccctg actggttaaga ccatcacycy cgargtggag 600  
 ccgagtgaaca ccattgagaa tgtcaaggca aagatccaag acaagggaagg catccctcct 660  
 gaccagcaga gggttgatctt tgctgggaaa cagctggaag atggacgcac cctgtctgac 720  
 tacaacatcc agaaagagtc caccctgcac ctggtgctcc gtcttagagg tgggatgcag 780  
 atcttcgtga agaccctgac tggttaagacc atcaactctc aagtggagcc gagtgcacac 840  
 attgagaatg tcaaggcaaa gatccaagac aaggaaggca tccctcctga ccagcagagg 900  
 ttgatctttg ctgggaaaca gctggaagat ggacgcaccc tgtctgacta caacatccag 960  
 aaagagtgca ccctgcacct ggtgctccgt ctyagaggtg ggatgcagat ctctgtgaag 1020  
 accctgactg gtaagacat cacyctcgaa gtggagccga gtgacacatc ygagaatgtc 1080  
 aaggcaagat ccagacaagg aaggcatcct cctgaccagc agargttgat ttgctggga 1140  
 aaarcttgna aatggncgan cccttttgat taaaatcccg aaagttc 1187

<210> 44  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (217)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (465)

<223> n equals a,t,g, or c

<400> 44

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ctgcagtacc gtccgaattc ccgggtcgac ccacgcgtcc ggtttgagcc gtcgtgcttc 60
accggtctac ctgcctagca tgcggggccg cggcaagact ggcggaagc cccgcgcaa 120
ggccaagtgc cgctcgtcgc gcgccggcct ccagttccca gtgggcccgtg tacaccggct 180
gctgcggaag ggccactacg ccgagcgcgt tggcgcnngc rcgccagtgt acctggcggc 240
agtgcctggag tacctcaccg ctgagatcct ggagctggcg ggcaatgcgg cccgcgacaa 300
caagaagacg cgaatcatcc cccgccacct gcagctggcc atccgcaacg acgaggagct 360
caacaagctg ctggggcgcg tgacgatcgc ccagggaagg cgtctgccc aacatccagg 420
ccgtgsttgy tgccaagaa gaccagcgc accgtggggc cgaangccct tcggggggca 480
agaaagggca accaaggctt cccaaggagt actaa 515
```

<210> 45

<211> 1499

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 45

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gcgagtgcgc gctcctcctc gcccgccgct aggtccatcc cggcccagcc accatgtcca 60
tccacttcag tccccggca tccgcgaggt caccattaac cagagcctgc tggccccgct 120
gcggctggac gccgaccct cctccagcg ggtgcgccag gaggagagcg agcagatcaa 180
gacctcaac aacaagttt cctccttcac cgacaagggtg cgtttcttg agcagcagaa 240
caagctgctg gagaccaagt ggacgctgct gcaggagcag aagtcggcca agagcagccg 300
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cactcctcca gccaccaccc acaatcacaa gaagattccc acccctgcct cccatgcctg 1380
gtcccaagac agtgagacag tctggaaaagt gatgtcagaa tagcttccaa taaagcagcs 1440
tcattctgag gcctgagtga aaaaaaaaaa aaaaanaaaa aaaaaaattt tngggggggg 1499

```

```

<210> 46
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

```

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<400> 46
tcgacccacg cgtccggcag cctttctgag ggagcggttg tgtgttcgcc atcttaggaa 60
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cagctggtac acgatggcct cacgggcacc gaagcagccc cgtgggnacc cccgggcncg 180
ccccgaacgt tcccgaatc tggcagcagc cgctgtggna agagtacagt tgccaatatg 240
gctccatgaa gttttatgca ctgtgtggct ttggtggggt cttaagttgt ggtctgacac 300
acactgctgt cgttcctctg gatttagtga aatgccgaat gcargtggac ccccgagaant 360
acaagggcak wnttaatngg attctcatta aca 393

```

```

<210> 47
<211> 238
<212> DNA

```

<213> Homo sapiens

<400> 47

```
cggatcccg ctcctgcac cagtcgccat tcgggaggcc gctgcgctgc agggcctcgc 60
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cgcggccgga ccggttcaac ttctcatctt tgttcttctt catatactat aggctgtttg 180
ctgtggttta gtcaaaaagc catgtagaat gcctgccttt tgaagaccac ttttaagg 238
```

<210> 48

<211> 939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<400> 48

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gccgcccga tgaacccga atatgactac ctgtttaagc tgcttttgat tggcgactca 120
ggcgtgggca agtcatgcct gctcctgcgg tttgctgatg acacgtacac agagagctac 180
atcagacca tcggggtgga cttcaagatc cgaaccatcg agctggatgg caaaactatc 240
aaacttcaga tctgggacac agcgggccag gaacggttcc ggaccatcac ttccagctac 300
taccgggggg ctcattggcat catcgtggtg tatgacgtca ctgaccagga atcctacgcc 360
aacgtgaagc agtggctgca ggagattgac cgctatgcc a gcgagaacgt caataagctc 420
ctggtgggca acaagagcga cctcaccacc aagaagggtg tggacaacac cacagccaag 480
gagtttcag actctctggg catccccctc ttggagacga gcgccaagaa tgccaccaat 540
gtcagacagg cgttcattgac catggctgct gaaatcaaaa agcggatggg gcctggagca 600
gcctctgggg gcgagcggcc caatctcaag atcgacagca cccctgtaa gccggctggc 660
ggtggctgtt gctagsaggg gcacatggag tgggacagga gggggcacct tctccagatg 720
atgtccctgg agggggcagg aggtacctcc ctctccctct cctggggcat ttgagtctgt 780
ggctttgggg tgtcctgggc tccccatctc ctcttgcccc atctgcctgc tgccctgagc 840
cccgttctk tmagggtccc taaaggagga cactcagggc ctgtggcagg cagggcgagg 900
gctgcttggt ctgttgccct taagtgaatt tccaaangc 939
```

<210> 49

<211> 1771

<212> DNA

<213> Homo sapiens

<400> 49

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tctgaggctc ctggggagtc ggtgggaacg acaccagaag ctcatatgaa gactggccca 60
tttgagagc actccaacca gctgtggaac atcagcgccg tcccttctctg gtccaaagtg 120
aaccagggtc tcatccgcat gtataaggcc gagtgcctgg agaagtcccc tgtgatccag 180
cacttcaagt tcgggagcct gctgccccat catcctgtca cgtcgggcta ggaggggcca 240
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cctccccatc cctcctctct gtctgctccc tttgatgaga ggctgtttac tggggtgggg 360
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tgaccaaagt gtagccagtt ttctgagttc ccgtgtgcta gactggccag aagagagggt 480
ctggggcctg gtcactcggc cactctctcc tgtttctggc ctcttctccc ttactcccc 540
```

```

tccagtctgg ttttgagagc aggggctgtt ctgcagcacc kcaggggaagg gaggagagat 600
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gtccttgca ggggcgggtc agtttcccag gccatgccgg ggtggccatc tatgctaggg 720
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aaaaaaaaa aaaaaaaaaa aaaaaattt t 1771

```

<210> 50

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 50

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gggtcgaccc acgcgtccgc tcgctccggg atcgcccgcg ctagagacgc atagcgtct 60
aatcgctcgc acgcaccggc cctcgctcgc tcgcccgtcc gtgcgcgcgc cgcccagccc 120
accgccaccc ttgacagcca tgtccaccag gtcygtgtcc tegtctctct accgcagatg 180
ttcggcgggc ccggcaccgg nagggnccg agctccacgc gcataacgtg accagtcac 240
ccgcacctac agcctgggca gcgcctgcgc cccagcacca gccgcagcct ctamamctcg 300
tccccgggag gcgcgtatgt tcacggctcc ttccgcggtg cgctgcgga anatgttgcc 360
ccggcggtgc gcttgctggc aggattccgt ggaattt 397

```

<210> 51  
 <211> 1635  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1422)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1617)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1620)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1629)  
 <223> n equals a,t,g, or c

<400> 51  
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 gcctgcctcc tgccgcccgc accatgacca cctccatccg ccagttcacc tcctccagct 120  
 ccatcaaggc ctctccgggc ctggggggcg gctcgtcccg cacctcctgc cggtctgtctg 180  
 gcggcctggg tgccggctcc tgcaggctgg gatctgctgg cggcctgggc agcaccctcg 240  
 ggggtagcag ctactccagc tgctacagct ttggctctgg tgggtgctat ggcagcagct 300  
 ttgggggtgt tgatgggctg ctggctggag gtgagaaggc caccatgcag aacctcaatg 360  
 accgcctggc ctctacctg gacaagggtg gtgccctgga ggaggccaac actgagctgg 420  
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 agtactacag gacaattgag gagctgcaga acaagatcct cacagccacc gtggacaatg 540  
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 gaggactcag ctaccccggc cggccaccca ggaggcagg angcagccgc cccatctgcc 1440  
 ccacagtctc cggcctctcc agcctcagcc ccctgcttca gtcccttccc catgcttctc 1500

```

tgcctgatga caataaagct tgttgactca gctaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanttn 1620
gggggggggnc ccccc . 1635

```

<210> 52

<211> 1780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1780)

<223> n equals a,t,g, or c

<400> 52

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ggggtgatcc tgcgtgctgt tggagctctg ggcaaaactta ctctgggcac ctatatctcc 180
cttattgccg agaactccac aaatgctccc tatgtgctca tcggaactgg caccactatt 240
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tttgtgtttc gtcatgagat caaggacacc ttcctgaagg cttacacgga cgctatgcag 420
acttacaatg gcaatgatga gaggagccgg gcagtggacc atgtgcagcg casctgagct 480
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```

<210> 53

<211> 490

<212> DNA

<213> Homo sapiens

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<400> 53
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catttctgga gcagggcctg agaccctgcc acatctccta tgctctgcat ccacgcctct 420
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aaaaaaaaaa 490

<210> 54
<211> 1944
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1308)
<223> n equals a,t,g, or c

<400> 54
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gcaacgtgaa ggtgctcggc aaggccgtcc actccctgtc ccgcacggg gacgagctct 180
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gaaggctgaa ccaagaacct gaagcctgta cccagaggcc ttggactnag acgaagcccc 1320
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gcagtgtctt agatgtraga cggaggccat ggcgagaatc cagctttgac ctttattcaa 1920
gagaccagat gggtttgccc cagg                                     1944

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&lt;210&gt; 55

&lt;211&gt; 994

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (896)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (971)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 55

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ccccgtgcg cagtaccggg tccgcgcctg tccccgaaac ttcgcacccc gtcgaaactct 60
cgcgagagcg ktatctgctg gtccggacgt gcggaggctc tcaactttccg tcatggcgct 120
gaaggtagcg accgtcgccg gcagcgccgc gaaggcgtgc tcgggccagc ccttctctgc 180
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ggagtgtgtg agagcctgaa gatcatcacc aaggccaagt ccctgcgcgt tgccgagtat 720
gccttcaagc tggcgagga gagcgggcgc aagaaagtga cggccgtgca caaggccaac 780
atcatgaaac tgggcgatgg gcttttctc cagtgtgca gggaggtggc agcccgytac 840
cctcagwtca ccttcgagaa catgattgtg gataacacca ccatgcagct ggtgtncgg 900
ccccagcagt ttgatgtcat ggtgatgccc aatctctatg gcaacatcgt caaacaatgt 960
ctgcgcggga ntggtcgggg gcccaagctt gttg                                     994

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&lt;210&gt; 56

&lt;211&gt; 328

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (123)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (156)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (170)  
<223> n equals a,t,g, or c

<400> 56  
gggtcgaccc acgcgtccgc ccacgcgtcc ggatgacttc attgccaaag ttgttcaaag 60  
gtagccttgg ccctttttca tctgagtccc atttagagat gtataaagaa tggtgttgag 120  
tanggccggg tggtctcacgc ctgtaatecc cacacnttgg gaaggccgan gcaggcggat 180  
cacgaggtca gaagattgag accattcttg ctaacatggt gaacccccat ctctactaaa 240  
aatacaaaaa ttagtcaggc gcgatggcgg gcacatgtag taccagctac tcgggaggct 300  
gatgcagaag aataacttgg aacctggg 328

<210> 57  
<211> 1489  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (710)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1117)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1206)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1211)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1218)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1264)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1311)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1446)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1467)  
<223> n equals a,t,g, or c

<400> 57  
cggcacgagg ggtggtgtgg gtgtgttttag aaaaaagatg cattcctgaa gatctctggt 60  
gctgaagggc ctcgagttcc ttccagagac tgtatttgac acactttagg tacacacaaa 120  
cgaatggtat cacatgcaat attttaatgg agcaatggga gaggctcttt gaaatgggg 180  
ttgcatcttt ttgtaacatt ttgatttctc tgggtgcctta ttcctacttg atgctggcac 240  
tcacataccc acaagaagct gacacagaag tcagccttag gcgtggggac atatgggtga 300  
tgtttgagca tgcaggggcc atggggagtt tgggtgtcagt tgggtggagaa gggactagat 360  
ggcatctctt agccgaggcc aacaggaact gcacaagtcc attatagtca aagttagcaa 420  
ttttgatacg taaacacaat acttcattct tcctcatctg agctttcctt ccttcttctt 480  
tttctatctc taccttctca taaagggtgct gctgctgctg ctaagggtgcc cggagtccag 540  
aatgtccatt aatcactcag gcacgagcct ggcaactgcca cgtcagcccc cagcatgacc 600  
aaaccaggt ttctcttgct tggggctgag aactgtcaga tttttctcat caaaaatggt 660  
ttccaaggaa tcagtggatt acagtttttc tgcattgaaa atgcactttn aaaaaataaa 720  
ttaaagctcc agactgttta aaatatacag agggagcagg ggaaagttaa gcatgtgcta 780  
gtgtctgaac ccagttcagt ttatctccag ttgaaacgat atacactata ttatgtataa 840  
atgtatacac acttctata tgtatccaca tatatatagt gtatatatta tacatgtata 900  
ggtgtgtata tgtgcatata tacacacatg cacataacaa aatcagatgc tcattacaaa 960  
tccagatgct cattacaaaa ccagatgcta cacaaacagc agcagaggaa acaagggttg 1020  
actcttgcaa cagatcacia aaaataaaaa cagctacttg cagtgacttt ggtcatttct 1080  
gtatgttcat aaagaatgga ttgtaacna ggaaaanaag gaccagtgtt agtgaaaagg 1140  
gaagatgggg cgaaccatct tgatccgatg cgaatccgta atgggtctata tacatttcat 1200

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cagtantcat ntagtcangt gattgattca gttctgctat gaaacattgt aacacgtacc 1260
cacnactgac aactactcgt gagcgttcat taggagtgac ctaactttgc ntgcctgctc 1320
atgggacgag ctcccttaggt ggagataccg gggaatagag aaagatgcac gtctctgcgt 1380
tgtcgcgtgc tttgaggggc ggtctttacc ttccgtgttg gagtcctccc tgagtcgggc 1440
gctggntgcg ggacacggcc cttctcngtg tcccaggcgc tgcttcatt 1489

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<210> 58

<211> 1283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1263)

<223> n equals a,t,g, or c

<400> 58

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aggtaatttg aattgagaga gagtaagtga cttgctgnaa aaagggttaa tcaacagcag 60
agctgggatt tgaaccata actctgtcaa agcctccact cctaactcct gttcatgctc 120
ctgtggagaa aatgcttgta gtaacatatt ttaaattgtac taacaagacc agtcatgggm 180
aaatgtttct gagacaaatc tctagtttat gatttaaaac agtacgtttt cttacgtgac 240
gaaaacaaaa agtgtgttaa tttgttccca gtggttgaag ttatttgcca acaattttac 300
tgtttctctt catctgttta taggatttct ctgcctcttc caaacttttc ctccctgaac 360
ctgaggggta agcattttat ttccctttag gaaaaacgtc agctgcttgt aaccactgtg 420
tttatgtcaa agcattcatt ttttttagga tatctgaaaa aatgccatat aagaaaaaam 480
tctataaaac atctatwatt ttcgaaccca agtacactct tgcattctaw gctttaagtt 540

```

```
aaatgcaaan tcctttttcc ttcttctgc tgcaagtact atctcatcct gatgctcaag 600
agtgtcaggg cctgggtttc caaacagaga ctaccctaaa attatttggc gagtagtact 660
ttacacaatt gcctctcccc cacaaatcat aattgtttca gtaaaatggg tacttggttt 720
ttccaagaaa aaactcgttt ttactcattt ttggcctgtt tgtttattta gaaactaatc 780
tggttccact ccctctggtt gatacccact caaaaaggac acttctgatt aagacggttg 840
aaactagaga tggacaggtt atcaacgaaa cttctcagca tcacgatgac cttgaataaa 900
aattgcacac actcagtgc gcaatatatt accagcaaga ataaaaaaga aatccatata 960
ttaaagaaac agctttcaag tgcctttctg cagtttttca ggagcgcaag atagatttgg 1020
aataggaata agctctagtt cttacaacc gacactccta caagatttag aaaaaagttt 1080
acaacataat ctagtttaca gaaaaatctt gtgctagaat actttttaaa aggtattttg 1140
aataccatta aaactgcttt tttttttcca gcaagtatcc aaccaacttg gttctgcttc 1200
ataaatctt tggaaaaact maaaaaaaaa aaaaaaaam mngggggggn gcccggggtn 1260
ccnccggggg gcccaagttt tac 1283
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<210> 59

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<400> 59

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tgctccgctg gacccgagcc tggaggctcc cgcgtgaggg actcggtccc caccgccccta 120
gtctcgcgag ggtgcctgtc gcaccagca gcagcagcgg cggccgaggg ggcgcccagc 180
cgaggccgct tccgctttcc tacaggcttc tggacgggga ggcagccctc ccggccgctc 240
tctttttgca cgggctcttc ggcagcaaaa ctaacttcaa ctccatcgcc aagatcttgg 300
cccagcagac aggccgtagg tgctgacggt ggatgctcgt aaccacggtg acagccccc 360
cagcccagac atgagctacg agatcatgag ccaggacctg caggaccttc tgccccagct 420
gggcctggtg ccctgcgtcg tcgttgacca cagcatggga ggaaagacag ccatgctgct 480
ggcactacag aggccagagc tgggtggaac tctcattgct gtagatatca gccagtgga 540
aagcacaggt gtctccact ttgcaacctt tgtggcagcc atgagggcca tcaacatcgc 600
agataggctt gccccgctcc cgtgcccga aactggcgga tgaacagctc agttctgtca 660
tccaggacat ggccgtgcgg cacacttgct tcaatnaacc tggtagaggt agacgggcgt 720
tttcgtgttg gaggtggaa 740
```

<210> 60

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1211)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1283)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 60

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actttnnccc ctcccccttt cctttcccgt ctcacgcgcc aggccgcttg cacatgcgca 60
ttaggtagaa agcctcgctc tttgtcccca tctgtcggtc acacgaactc aagcctttgg 120
cattcggcag ccaatagaat ctaaganatg gcggaaaaat gattccgcct cgggagctaa 180
acttgattgg cagtttagct aaccaatcga gaacgccatt tgtamccctt ggcaggcamc 240
gagctccgtc gtctcgtttc cggcggtcgc gcgctctttt ctcgggacgg gagaggccgt 300
gtagcgtcgc cgttactccg aggagatacc agtcggtaga ggagaagtcg aggttagagg 360
gaactgggag gcactttgct gtctgcaatc gaagttgagg gtgcaaaaat gcagagtaat 420
aaaactttta acttgagaa gcaaaacat actccaagaa agcatcatca acatcaccac 480
cagcagcagc accaccagca gcaacagcag cagccgccac caccgccaat acctgcaaat 540
gggcaacagg ccagcagcca aaatgaaggc ttgactattg acctgaagaa ttttagaaaa 600
ccaggagaga agacctcac ccaacgaagc cgtctttttg tgggaaatct tcctcccgac 660
atcactgagg aagaaatgag gaaactattt gagaaatatg gaaaggcagg cgaagtcttc 720
attcataagg ataaaggatt tggctttatc cgcttggaac cccgaaccct agcggagatt 780
gccaaagtgg agctggacaa tatgccactc cgtggaaagc agctgcgtgt gcgctttgcc 840
tgccatagtg catcccttac agttcgaaac ctctctcagt atgtgtccaa cgaactgctg 900
gaagaagcct tttctgtgtt tggccaggta gagagggctg tagtcattgt ggatgatcga 960
ggaaggccct caggaaaagg cattgttgag ttctcagggg agccagctgc tcggaaagct 1020
ctggacagat gcagtgaagg ctcttcctg ctaaccacat ttctcgtcc tgtgactgtg 1080
gagcccatgg accagttaga tgatgaagag ggacttccag agaagctggt tataaaaaac 1140
cagcaatttc acaaggaaag agagcagcca ccagatttg cacagcctgg ctcccttkga 1200
gtatgaatat ngccatgcgc tgggaaggca ctcatgaga tggagaaagc agcctggggg 1260
gacaagaagt gaagactcct gnttccaaaa a 1291

```

&lt;210&gt; 61

&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (856)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (886)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 61

```

ctgcagtacc ggtccggaat tcccgggtcg acccacgcgt ccgggtctgt ggtcctctct 60
cggctcctcg cggctcgcgg cggccgacgg ttcttgggac acctgcttgc ttggcccgtc 120
cggcggtctca gggcttctct gctgcgctcc cggttcgctg gacgggaaga agggctgggc 180
cgccccgtcc cgccccatc ggaaccccaa gtcgcgcgcg tgacctgctg cagggcgaga 240
tgagcgcgga cgcagcggcc ggggcgcccc tgccccggct ctgctgcctg gagaagggtc 300
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tggtggagcc cggctcgcgg gccgagaagg cggggctgct ggccgggggac cggctggtgg 420
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ccgcactcaa cgccgtgcgc ctgctggtgg tcgaccccgga gacggacgag cagctgcaga 540
agctcggcgt ccaggtccga gaggagctgc tgcgcgcca ggaagcgcg ggcaggccg 600
agccgcccgc cgccgcrag gtgcaggggg ctggcaacga aaatrarcct cgcraggccg 660
acaagagcca cccggagcag cgcgagcttc ggcctcggct ctgtaccatg aagaagggcc 720
ccagtggcta tggcttcaac ctgcacagcg acaagtccaa gccaggccag ttcattccgt 780
cagtggacct agactccccg gctgaggctt cagggtcccg ggcccaggat cgcattgtgg 840
aggtgatgct tctcgnctt ctctctatct gaactgcccc caaccnctgc agattagcag 900
caccttgggg cagccatcat accatcatgg ggtttgatta gcccacgggc attagccaac 960
ctgggaggtt g                                     971

```

&lt;210&gt; 62

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (563)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (598)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 62

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gggtcgaccc acgcgtccgg cagaaatgaa ggaccacctg ccaagacgaa gagctgggtg 60
ggaccacgc tgcattttca tcgaaagagt gaacatctag tgggactgaa agttctttgt 120
tgtttcagat tgtagagtgt gattgatgga attggtctgt ggaaattgca ttgtttttat 180
ttctttatgt aatcagttta agtaataggg ggtatatata atcgtaagta ttttaggggtg 240
ggaggggcta ttaagtaatt aagtgggtgg ggttagttta aaagttagca tgatatgtat 300
tagataactc tataagtga catgtgtact tacttgtgat cttttaccct atgattgcta 360
cccttaacga tttcaaataa actcagaggg aactgcaggg agatcaaacc atttagggca 420
aattggacat gaataaaact ctagtgggaa aaagttcaaa ggtgattgaa taaataattt 480
aactttgccc tgggtattaa gtccagggt cccagattgt ggagcagagc cttggagagt 540
acaggatgaa ggagatagat gncctttga cttgccggga atgaaattgg attaatgnaa 600

```

ggatggtaaa taattcca

618

&lt;210&gt; 63

&lt;211&gt; 1138

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (15)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (22)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (27)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (29)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1123)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 63

tctatanatc atganaggaa anggtancng acagtacggt cggattcccg ggtcgaccca 60  
cgctccgatg acttcacccc tctggagatc ctctggacct tctccatcta cctggagtca 120  
gtggccatct tgccgcagct gttcatggtg agcaagaccg gcgaggcgga gaccatcacc 180  
agccactact tgtttgcgct aggcgtttac cgcacgctct atctcttcaa ctggatcttg 240  
cgctaccatt tcgagggctt cttcgacctc atcgccattg tggcaggcct ggtccagaca 300  
gtcctctact gcgatttctt ctacctctat atcaccaaag tcctaaaggg gaagaagttg 360  
agtttgccgg catagccccg gtcctctcca tctctctcct cggcagcagc gggaggcaga 420  
ggaaggcggc agaagatgaa gagctttccc atccaggggt gactttttta agaaccacc 480  
tctttgtgctc cccatcccgc ctccctgccg gtttcagggg gacagtggag gatccaggtc 540  
ttggggagct caggacttgg gctgtttgta gttttttgcc ttttagacaa gaaaaaaaaa 600  
tctttccact cttagttttt tgattctgat gactcgtttt tcttctactc tgtggcccca 660  
atttttataa agtgtttttg agtgtcctat gggccggggc agggccaag atcttttccc 720  
tccccaggc ccctcggtc cctccagat cccaccccca gccccactgg ttgccaaca 780

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ctaaatctgc cgacacccat ctgccccacc tctgccatg gccatgaacc gcgacccccca 840
ctaaatttct agattgggga tagggagaaa gggaggccca ggaagggtctc ccctgatttt 900
ttttcatagt aatttttttc cccagagttt gaattttttg gtcttctcct ggtttttttg 960
caaattaggg gggcccgagg ctcaagtgcg ggaagggggc tggcccgagg atcccatggc 1020
tctcacacca tgtttttgta cagaactgat gggtgaatct ttgttctctt gaaataaaca 1080
gaagaaaatg aaaccttaaa aaaaaaaaaa aaaaaaaaaa acncgggggg gggcccg 1138

```

<210> 64

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 64

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tgctcatcca gaggagctca ccacagtcac tgcgacagac tgccacactc accctggcct 60
ggcctcagag aagttgagct actggcctca gtacacacag agcagatgga ggaagagctg 120
gcactaggac ccagggggca ggggggagcc tccctggctg gaagggatgg caggagcgct 180
ggtgcaggta gctatggagc tctggccaac tctgcctggg gaggtcccag gaaggtggcg 240
tcagcatctg cagccgcgtc gacgttgctg gacccctccg ggaggacca ggagagccgg 300
actaggacca gggccctggg cctccccaca ctccccatgg agaagctggc ggcctctaac 360
agagncccaa ngggcttggg cggctctggg ncgtgaaaat gttcaagtgc ccgattga 418

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<210> 65

<211> 2836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2834)

<223> n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2836)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 65

```
aagaaaccgc ccattacaca cccagtaga ccagcagag aaacttataa cctcgggagg 60
caggctcctc ccctcagtag ggtagacatac ttccagaaga gcggaccagg gctgctgcca 120
gcacctgcca ctacagagcgc ctctgtcgtc gggacccttc agaactctct ttgctcacia 180
gttaccaaaa aaaaaagagc caacatgttg gtattgctgg ctggtagctt tgggtgccac 240
atcgctactg ttattatgct atttgtagc accattgcca atgtctgggt gggttccaat 300
acggtagatg catcagtagg tctttggaaa aactgtacca acattagctg cagtgcacgc 360
ctgtcatatg ccagtgaaga tgccctcaag acagtgcagg ccttcagat tctctctatc 420
atcttctgtg tcatggcctt cctggctctc gtgttccagc tcttcacat ggagaaggga 480
aaccgggtct tctctcagg gggaccacac ctgggtgtgt gscgtgtgat tctgtgtggg 540
tgtccatcta cactagtcac tatgcgaatc gtgatggaac gcatatgcac cacggctatt 600
cctacatcct gggctggatc tgcttctgct tcagcttcat catcggcgtt ctctatctgg 660
tcctgagaaa gaaataaggc cggacgagtt catggggatc tgggggggtg ggaggaggaa 720
gccgttgaat ctgggaggga agtgagggtt gctgtacagg aaaaaccgag ataggggagg 780
ggggaggggg aagcaaaggg gggaggtcaa atcccaaacc attactgagg ggattctcta 840
ctgccaagcc cctgccctgg ggagaaagta gttggctagt actttgatgc tcccttgatg 900
gggtccagag agcctccctg cagccaccag acttggcctc cagctgttct tagtgacaca 960
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ctgtctttgt gctgaatacg ctaagcctgg aagccatcct gcccttctga cccaaagcaa 1140
aacatcacat tccagtctga agtgctact ggggggcttt ggctgtgag ccattgtccc 1200
tctttggaac agatatttag ctctgtggaa ttcagtgaca aaatgggagg aggaagaga 1260
gtttgtaagg tcatgctggt gggtagcta aaccaagaag gagaccttt cacaatggaa 1320
aacctggggg atggctcagc cccagtcgag acctcacaca cggctgtccc tcatggagac 1380
ctcatgccat ggtccttgct aggcctcttg ctgaaagcca aggcagctct tctggagttt 1440
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```

```

atattttgat acaaatgttt ataactctag ggatataaaa acagattctg attcccttca 2760
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ccctcattaa agcngn 2836

```

<210> 66

<211> 2305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1973)

<223> n equals a,t,g, or c

<400> 66

```

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tgccaaggag gtgtgcccga agtacttcaa gcacaacaac atggccagct tcgtgcggca 180
gytcaacatg tatggttcc ggaaagtgtt ccacatcgag cagggcgkcc tggtaagcc 240
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tgagaacatc aagaggaaag tgaccagtgt gtccaccctg aagagtgaag acataaagat 360
ccgccaggac agcgtcacca agctgctgac ggacgtgcag ctgatgaagg ggaagcagga 420
gtgcatggac tccaagctcc tggccatgaa gcatgagaat gaggtctgtt ggcgggaggt 480
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```

```

ctctggttgt cacaggacca ccaggaaccc ccttcccaag gtgttcgcac tcggacaggt 2220
gatgcggggc gggcacactg tctttctgcc agagccagca ccctgtgtag gcacggggaa 2280
cgggagcctg tcccgtagct ttagg                                     2305

```

```

<210> 67
<211> 1907
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1221)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1655)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1896)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1904)
<223> n equals a,t,g, or c

```

```

<400> 67
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cgggcaagac ccattgagcc gagatcgtgg aaggggagaa ccacacctac tgcatccgct 180
ttgttccgcg tgagatgggc acacacacag tcagcgtgaa gtacaagggc cagcacgtgc 240
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tggtgcctgt ggcttctccg tctggcgacg cccgccgcct cactgtttct agccttcagg 600
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gggcgatcga tgccaagggt cacagcccct caggagccct ggaggagtgc tatgtcacag 720
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```

```

ccaagggctg gggctgagca aggcctacgt aggccagaag agcagcttca cagtagactg 1320
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gccgtgacc tctcggttt cacttgggca gagggagcca tttggtggcg ctgctgtct 1740
tctttggttc tgggaggggt gagggatggg ggtcctgtac acaaccacc actagttctc 1800
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tyggggggg kccgktaacc caattggcct ttaagngggt ggtntta 1907

```

<210> 68

<211> 815

<212> DNA

<213> Homo sapiens

<400> 68

```

gggtcgaccc acgcgtccgt tttttttaag tgtgaat tttt ttattgagat aaacaacagc 60
ataaagaata caagtagcca aatggttttg aaaaaccaa ttaggtcaa gttctaaatt 120
aaaaatagca gttgtgtttc aatttacctt attctagcaa ttwaagtwgg taacatacaa 180
atagttatwc tgatacaaga tattaagac atactcagtt ttaatcaact acctctcaag 240
aaacagtagg gcctctgtaa aattggagac tgataggttg atcagaaact caccctaaat 300
ctgaacgggt gccgtataa tttgtgacat ctggcaagat ttccctttat gtatatattt 360
taacaatccg cttggacacg aacaaagcca cacttctaac tgcttctggc gaactgattt 420
tatttttaat ttttttcaat aaagatattc ttagatactg aaagaaatag ttaatgagtt 480
tgcatattgtg cttgagaaaa tttggctcaa gtccatttg ctgtagtgtc aacgatgttt 540
ccagtagtgt ttagatttg tgtcttcaaa ggtagttgat taaaaccaag tgtgtcttta 600
atatcttgta tcagaataac tttgtatgtt accaacttaa attgctagaa taaggtaaat 660
tgatacacia ctgctatttt taatttagaa ctttgaccta atttggttt tcaaaacat 720
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tatacttact aaaaaaaaaa aaaaaaaaaa actcg 815

```

<210> 69

<211> 1150

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1150)

<223> n equals a,t,g, or c

<400> 69

```

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tgggggtggc cttggagctg tgccaaagct acacctcggg gtcctagtct caactggcct 180
gcgtactgct gtgggctcac ccgccttcc tcccacagcc ctgggcgctg cctatggcac 240
agccaagagc ggtaccggca ttgcggccat gtctgtcatg cgcccgagc agatcatgaa 300
gtccatcatc ccagtggtea tggtggcat catcgccatc tacggcctgg tggtggcagt 360
cctcatcgcc aactccctga atgacgacat cagcctctac aagagcttcc tccagctggg 420
cgccggcctg agcgtgggccc tgagcggcct ggcagccggc tttgccatcg gcatcggtgg 480
ggacgctggc gtgcggggca ccgccagca gccccgacta ttcgtgggca tgatcctgat 540
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attccagaac gaacagcctg acacatacgc acggggccgc cgccccagc agttggtctt 720
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cgtgccgtgg acatctgggc cactcatcg cccctccagg cccccggcgc cccacccctc 840
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cctcaccgcc gggcccgtgg ccctgcgcgg agctgtgtcc aataaagttc ttggatgtga 1080
aaaaaaaaa aaaaaaaaaa aaaaaaaraa aaaaaaaaaa aaaraaaraa aaaaaawaa 1140
gaaaaaaaaa 1150

```

<210> 70

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (339)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 70

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cgcaggctct gcggccgggt tccttcgcg ggacggggag aaagagagag cgcgaaagag 60
agaggatgtc tctctcagat tggcacctgg cgggtgaagct ggctgaccag ccacttgccc 120
caaagtctat tctccagttg ccagagtcag agctgggtga atactctctg gggggctaca 180
gtatttcatt tctgaaacag ctcatgtctg gcaaactcca ggagtcgggt ccagaccctg 240
agctgattga tctgatatac tgtggccgga agcttaaaga tgaccanacc ttgacttcta 300
cgttattcaa cctggctcca catccatgtt ctncggaant cctg 344

```

&lt;210&gt; 71

&lt;211&gt; 448

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (425)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 71

```

tcgacccacg catccgaaga tgttcttgct gcccttccg gctgccgggc gagtcgtcct 60
ccgacgtctg ggcgtgaaca gttctgggca cggggtctcg ccgccgcaga catgacgaag 120
ggctctgttt taggaatcta tagtaaagac aaagaagatg atgtgccaca gtttacgagt 180
gcaggagaga atttcgataa attggtgtct ggaaagtga gagaaatddd gaacatatct 240
ggacctctc tgaaagcagg caaaaccgga accttttatg gtctgcatga ggacttcccc 300
agcgtggtgg tggctggcct cggcagaaaag gcagctggag tcgatgacca ggaaaactgg 360
cmtgaaggca aagaaaacat cagagtcgcc atgcaacggg gtgcaggcag gttccaagac 420
ctggnaatct cttctgtgga aggtggat 448

```

&lt;210&gt; 72

&lt;211&gt; 2825

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1809)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2093)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 72

```

gagaaggagg tcgcgcggcc tcaccccggt ccgcgccccca ggccgccgcc ggccccgcgc 60
tcattgaggtt gctcgcgcgc ccccgccgat cgccatggat cggatgaaga agatcaaacg 120
gcagctgtca atgacactcc gaggtggccg aggcataagc aagaccaatg gtgccccctga 180
gcagataggc ctggatgaga gtggtggtgg tggcggcagt gaccctggag agggccccac 240

```

```

acgtgctgct cctggggaac ttcgttctgc acggggccca ctcagctctg caccagagat 300
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ctcggatgag gtgcagtctc cagtgaagat gcgtatgcgc aaccatcccc cagcaagat 420
ctccactgag gacatcaaca agcgcctatc actaccagct gacatccggc tgcctgaggg 480
ctacctggag aagctgaccc tcaatagccc catctttgac aagcccctca gccgccgcct 540
ccgtcgtgtc agcctatctg agattggcct tgggaaactg gagacctaca ttaagctgga 600
caaactgggc gagggtacct atgccaccgt ctacaaaggc aaaagcaagc tcacagacaa 660
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aaaaa 2825

```

&lt;210&gt; 73

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

```

atgtacgaga gcgcacccaa agaaccctagt agagaaaagggt attctaacca ctgagaagca 60
gaatttccts ctatttgaca tgactactca tccagtgacc aatacaacag agaaacagcg 120
actagtgtaaa aaacttcaag atagtgtact agagcgggtgg gtaaatgacc ctcagcgtat 180
ggacaagcga aactagcac tcctgggtgct agccactcc tctgatgtgc tagagaatgt 240
cttctcctct ctgacagatg acaagtatga tgtggcaatg aatcgagcca aggacttagt 300
agaactggac cctgaagtgg aagggacaaa gccyagtgcc acagaratga tctgggctgt 360
gctggcagcc tttyaataaa tcytaaagcc rgyrggtggg tttctycttt tcccctgctg 420
gctggtgact gttcagagac mcccactga gttttgtgtg atgasatgtt ttccatcatt 480
tttcccttyc ttgaatcaga cttgtgaatt 510

```

<210> 74

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 74

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ttcaagggtct taaatgttaa atgaaggggt aaaataggaa ggtatttaag taattagcag 120
gcctcctggg tcttgataac ttcagtgtct ctgggagctg cccggttggc caccagtctc 180
tgtggaatcc aggggcctct tcccaatatg gatttgacca gcacttcaat tagtgagttt 240
ccatkagcat cttagcatta ctctttaata cagacgcctt attttccagg gtttatgaaa 300
gtttaagtga caaccatgga ttgcaggaac agactgttga gaagctgttt ttccagtggg 360
aaagttgggt ccaggagatg angggagnct tgaaatagat cctgggatgg aaacataaag 420
tggncagcca gattcccatc atgggctncc ccataaaa 458

```

<210> 75

<211> 377

<212> DNA

<213> Homo sapiens

<400> 75

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tagtccacac ctattcatcc atggaccggc acgatgggtg cccgagccac agctcgcggc 180
tctcccagct gggtcgggtg tcccaggac cctactcgag cgccccgcgc ctgtcccaca 240
ccccgtcgtc ggacttccag ccgccctact tcccaccccc ctaccagccg ctccccctamc 300
amcagagcca ggacccctac tcccacgtca amgamcccta tccctgaacc cactgcacca 360
gccccagcaa catccct                                     377

```

<210> 76

<211> 2070

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2068)

<223> n equals a,t,g, or c

<400> 76

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tcatgaatgg gaatcctggn cccaagaact ccgcttgcn gacagaggac ctgcagctga 60
ggacctatag cgttgtgccc atgacctnca gtgtatccca gggcaccgcc gtgtgtaata 120
taaagattgg ctgacaaaaa tgtcaggaaa acatgatgtt ggagcttaca tgctaata 180
taagggcgct aatcgtactg aaacagtcac gtcttttaga aaacgagaaa gtaaaagtgc 240
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gctccgctcc cacttcgcca gctctcacgc tctgatatgc atcagccact ggatcctcgg 360
gattggagac agacatctga acaactttat ggtggccatg gagactggcg gcgtgatcgg 420
gatcgacttt gggcatgcgt ttggatccgc tacacagttt ctgccagtcc ctgagttgat 480
gccttttcgg ctaactcgcc agtttatcaa tctgatgtta ccaatgaaag aaacgggcct 540
tatgtacagc atcatggtac acgcactccg ggccttccgc tcagaccctg gcctgctcac 600
caacaccatg gatgtgtttg tcaaggagcc ctcctttgat tggaaaaatt ttgaacagaa 660
aatgtgaaa aaaggagggt catggattca agaaataaat gttgctgaaa aaaattggta 720
ccccgcagac aaaatatgtt acgctaagag aaagtttagc ggtgccaatc cagcagtcac 780
tacttgtgat gagctactcc tgggtcatga gaaggccct gccttcagag actatgtggc 840
tgtggcacga ggaagcaaag atcacaacat tcgtgcccaa gaaccagaga gtgggctttc 900
agaagagact caagtgaagt gcctgatgga ccaggcaaca gacccaaca tccttggcag 960
aacctgggaa ggatgggagc cctggatgtg aggtctgtgg gactctgcag atagaaagca 1020

```

```
ttacattggt taaagaatct actatacttt ggttggcagc attccatgag ctgattttcc 1080
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attatgatga gtaaatgtgt atgggttaaa tcaaagataa gggttatagta acatcaaaga 1200
ttaggtgagg tttatagaaa gatagatata caggcttacc aaagtattaa gtcaagaata 1260
taatatgtga tcagctttca aagcattttac aagtgtctgca agttagttaa acagctgtct 1320
ccgtaaatgg aggaatgtg gggaaagcctt ggaatgccct tctggttctg gcacattgga 1380
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gaaatgaatt cctcatattg aggaaaaaaa gcatgcattc tagcacaca agatgaaatt 1860
atggaataca aaagtggctc cttcccatgt gcagtccctg tcccccccg ccagtcctcc 1920
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```

<210> 77

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 77

```
ctcgccttcc tgactcttcc tgcaggtggc tcaggaagga ttcagcctgg ccacttggtc 60
aggactctgc cagcaccat ctgagactga cctcttccgg gcctttggac actatgacct 120
tgatgtctgc cttcaggcag gaaacagggc tgggtgcctt tttcacctgc atggccagct 180
tccttccctg gcagtggaga gggcagccaa caggttctaa tgtcagagcc atcctttacc 240
aggtgggcct gcttgccct gtcttgccct ccacatcact ctacttttg gaaggccatg 300
gctgattaaa gaagttcttg tagtttccca agcaaagtgg aatctagaaa cagtgaaaaa 360
agttcagata actttgaatt gcattcaaga agtacacttc tttcccatg tccgtggctc 420
ttggagtctc cgtgatgcca ggctagagtc tgattatata ataattcaaa atggtaactc 480
ccaaggtaat gctttcttcc atttcatcag gttcttttat cccactgca cccctcccc 540
ttctcccttg cctatctgga tggcttctca gaagctcggc cctagtcctc cctgccttgg 600
cgggggccag agcccactna ctgctgaggc agcactgctc tcgtcagctg tgttgcttt 660
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ctgggtttga tctttagggt ctgactttct gcagagaaga tgttttacag atgtgtcaaa 780
gctgatgtaa tgtggttggg ggaggaaatc cagaccctaa gtgtttgtca gctgggtgta 840
caactgccta tgtgatcctc tgtcttaaaa tgatttctgt ctgtgctgcg aaacaaagac 900
aaggtgaggt gtttttcttt tttgtaataa tataaagctg tgtgtttctg attggatgat 960
tcactatgtg cattgttccy cctaagtgtc tttagta 997
```

<210> 78

<211> 1333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 78

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aggtgcaggg ggctggcaac gaaaatgagc ctgcgcaggc cgacaagagc caccgcggagc 120
agcgcragct tcggcctcgg ctctgtacca tgaagaaggc cccagtggtc tatggcttca 180
acctgcacag cgacaagtcc aagccaggcc agttcatccg gtcagtggac ccagactccc 240
cggctgaggg ttcagggttc cgggcccagg atcgcatgtg ggaggtgaac ggggtctgca 300
tggaggggaa gcagcatggg gacgtggtgt ccgccatcag ggctggcggg gacgagacca 360
agctgctggt ggtggacagg gaaactgacg agttcttcaa gaaatgcaga gtgatcccat 420
ctcaggagca cctgaatggt cccctgcctg tgcccttcac caatggggag atacagaagg 480
agaacagtcg tgaagccctg gcagaggcag ccttgagagc cccaggcca gccctggtga 540
gatccgcctc cagtgcaccc agcgaggagc tgaattccca agacagcccc ccaaacagg 600
actccacagc gccctcgtct acctcctcct ccgaccccat cctagacttc aacatctccc 660
tggccatggc caaagagagg gccaccaga aacgcagcag caaacgggcc ccgcagatgg 720
actggagcaa gaaaaacgaa ctcttcagca acctctgagc gccctgctgc caccagtgta 780
ctggcagggc cgagccagca ttccacccca ctttttctct tctccccaat tactccccctg 840
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tatgttcttc cctgacttta ggggaaggtga atgtgttccc gtcctcccgc agtcagaaaag 960
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caccctccct tcctcccca tgtgataaat ggggccaggc ctgatcaaaag aactytgact 1140
gcagaactgc cgytctyagt ggacaggcca tytggtatga cagacctktg gcagacacgt 1200
cttggttttca ttgatttttg ttaagagtgc agtattgcag agtctagagg aatntatgtt 1260
tccttgatta acatgatttc ctggttggtta catccanggc aggcagtggtc tcagctttaa 1320
atttggtttc cta 1333
```

<210> 79

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 79

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gcttttccat acattgtgtg acccttgccc tatgacctt tggctgacct taccggaagc 120
catgacgaca gcagcctttt gccattagac gcagggtgat ggtgaggatt ccaagggtta 180
```

```

gacaaaactg gttaatctga actaggtgac tgttaccttg cgtgttttgt ggccaaacca 240
ccacaaaaaa cctcacactg tgatgtaagt acttagtgta aaactagtaa acatttttgt 300
aaaatgtaga aatgcatgta atcagttaag ttttatattt tacaatgttc tgtaaaataa 360
aacttagcga ggtaaatacga ataaaggagc agtcaacttc taacagattg taggagaggt 420
ttagttggat ttagtctatt tgacttgccc ttaatttaat tttatggcaa atcacaaatg 480
tgtcgaaggt ttagcaatat aatagcaaaag tcctactcca gttaaataaaa gttggtatgt 540
tngtacttaa ctttcaaaaag                                     560

```

<210> 80

<211> 3203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3201)

<223> n equals a,t,g, or c

<400> 80

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cccctggacc atgtcccgcg ccctgcggcc accgctcccc cctctctgct ttttcctttt 120
gttgctggcg gctgccggtg ctcgggcccg gggatacgag acatgcccc aagtgcagcc 180
gaacatgctg aacgtgcacc tgctgcctca cacacatgat gacgtgggct ggctcaaaac 240
cgtggaccag tacttttatg gaatcaagaa tgacatccag cacgccggtg tgcagtacat 300
cctggactcg gtcatctctg ccttgctggc agatcccacc cgctcgcttca tttacgtgga 360
gattgccttc ttctcccgtt ggtggcacca gcagacaaat gccacacagg aagtcgtgcg 420
agaccttggt cgccaggggc gcctggagtt cgccaatggt ggctgggtga tgaacgatga 480
ggcagccacc cactacggtg ccatcggtga ccagatgaca cttgggctgc gctttctgga 540
ggacacattt ggcaatgatg ggcgaccccc tgtggccttg cacattgacc ccttcggcca 600
ctctcgggag caggcctcgc tgtttgcgca ratgggcttc gacggcttct tctttgggag 660
ccttgattat caagataagt ggttacggat gcagaagctg gagatggagc aggtgtggcg 720

```

```

ggccagcacc agcctgaagc ccccgaccgc ggacctcttc actggtgtgc ttcccaatgg 780
ttacaacccg ccaaggaatc tgtgctggga tgtgctgtgt gtcgatcagc cgctggtgga 840
ggaccctcgc agccccgagt acaacgccaa ggagctggtc gattacttcc taaatgtggc 900
cactgcccag ggccggtatt accgcaccaa ccacactgtg atgaccatgg gctcggactt 960
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cccgtcagc cagacggcgg cgcgcttcca ggtcatcgtt tataatcccc tggggcgga 1560
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caagcctcct gctccggggg cagaccagac tctgactctc ctcttgggct gctgccatta 3120
aaacgtact actaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3180
aaatttanaa aaaaaaaaaa naa 3203

```

&lt;210&gt; 81

&lt;211&gt; 1710

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1424)

<223> n equals a,t,g, or c

<400> 81

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aagagccgaa cggataagag aagaggaggg cgcgkatggc gtcggggcgc cccgaggagc 60
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tgctgctgac cgcggccccc ccgcaccacc ccgcccgggc ccctgtgcct atgctgcca 180
tggtcgagga gccctggcgg aggcagcgcg ccgttgccct caccacatcg cactggccca 240
cagggctgcc actgtgtctc ggccctcctgc gccccacca gcaccacagc caccagtc 300
cacaccagc ccacccggc ctaccctggc cagagaggac aacgaggagg acgaggatga 360
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tgtgatggat gaggacgcca ccctccagga ccttcccccc ttctgtgagt cagaccccca 480
gagtacagat gatggcagcc tgagcgagga gaccccgcc ggcccccca cctgtctagt 540
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tggtaccagc tcccgccct cgccccccac ctcacaggt gccttaaagg gccctcgtca 1560
cccaaggtgg ggcaggggc cctcactctc cggccctggg gtgggggaga gagtggggg 1620
ttgggggatc ggcagttggg aggggcgctc tgagattaaa gatttttacc tctgagataa 1680
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1710
```

<210> 82

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<400> 82

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aattcggcag agctgagccc cgggctgtgc agtccgacgc cgactgagggc acgagcgggt 60
gacgctgggc ctgcagcgcg gagcagaaaag cagaacccgc agagtcctcc ctgctgctgt 120
gtggacgaca cgtgggcaca ggcagaagtg ggccctgtga ccagctgcac tggtttcgtg 180
gaaggaaagt ccaggactgg cgggatgggc tcagcctgta tcaaagtcac caaatacttt 240
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tggatcctgg ccgacaagag cagtttcatc tctgtcctgc aaacctcctc cagctcgctt 360
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gaaacacata gcgcattggc ccataagtac tcaataaatg ttattcttgt tattattaag 960
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```

<210> 83

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 83

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cttgtgtgcc tgggtgcggga gctacggggc ccagggtattg tgtttaaagt agtgcttcta 120
ccaacatgac ccgtggttcc agcgcgggtt ttgaccgcca cattaccatt ttttcacccc 180

```

```

agggtcggct ctaccaagta gaatatgctt ttaaggctat taaccagggg ggccttacat 240
cagtagctgt cagagggaaa gactgtgcag taattgtcac acagaagaaa gtacctgaca 300
aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attgggttg 360
tgatgaccgg aatgacagct gacagcagat cccaggtaca gagggcacgc tatgaggcag 420
ctaactggaa atacaagtat ggctatgaga ttcctgtgga catgctgtgt aaaagaattg 480
ccgatatttc tcagggtctac acacagaatg ctgaaatgag gcctcttggt tgttgatga 540
ttttaattgg tatagatgaa gagcaaggcc ctcaggtata taagtgtgat cctgcagggt 600
antactgtgg ggtttaaagc cactgnagcg ggagttaaac aaactggngt caaccagctt 660
ccttgaaaaa aaagtgga                                     678

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<210> 84

<211> 2803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1926)

<223> n equals a,t,g, or c

<400> 84

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tgtcagcaga gtccgtcaga cgtgagaagg gtgggagcgg cggactgtga acgctggtag 360
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cttccggtgt catagctgtg ggatccggaa gtaaaaacac aagccccgcs cccrrgaact 480
cggaagccg gcgakaagtg tgaggccgcg gtagggncgc atcccgtcc ggagagaagt 540
ctgagtcgcg cagctctgca ggcccgcgga antcgacagc gtcatggcag agcaggtggc 600

```

cctgagccgg acccaggtgt gcgggatcct gcgggaagag cttttccagg gcgatgcctt 660  
ccatcagtcg gatacacaca tattcatcat catgggtgca tcgggtgacc tggccaagaa 720  
gaagatctac cccaccatct ggtggctgtt ccgggatggc cttctgcccg aaaacacctt 780  
catcgtgggc tatgcccgtt ccgcctcac agtggctgac atccgcaaac agagtgaacc 840  
cttcttcaag gccaccccag aggagaagct caagctggag gacttctttg cccgcaactc 900  
ctatgtggct ggccagtacg atgatgcagc ctccctaccag cgcctcaaca gccacatgaa 960  
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aacatctcga gccccctgga tgtcccctgt cccaccaact ctgcactcca tggccacccc 2640  
gtgccaccgc taggcagcct ctctgtata agaaaagcag acgcagcagc tgggaccctc 2700  
cccaacctca atgccctgcc attaaatccg caaacagcca aaaaaaaaaa aaaaaaaaaa 2760  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 2803

&lt;210&gt; 85

&lt;211&gt; 1278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

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gccccgtgag gccctggcct tcatcatcag gatttttggg ggggaagtgt cctgggacaa 120  
atctttgtgc attggggcca cctatgacgt cacagactcc cgcacaccc atcagattgt 180  
cgaccggcct gggcagcaga cctcagtcac tggcaggtgc tacgtgcagc cccagtrgg 240  
gtttgactca gtgaacgcca ggctccttct ccccgaggca gactacttct ctgggggtgca 300  
gctgccccca cacctttcac cctttgtgac cgagaaggaa ggagattacg ttccacctga 360  
gaagctgaag ctgctggctc tgcagcgggg agaggaccca ggaaacctga atgagtcaga 420

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agaggaggag gaagaggacg acaacaacga aggtgatggt gatgaagagg gagaaaatga 480
ggaggaggag gaagatgcag aggctgggtc agaaaaggag gaagaggccc ggctggcagc 540
cctggaagag cagaggatgg aggggaagaa gcccagggtg atggcaggca ccttgaagct 600
ggaggataag cagcggctgg cccaggagga ggagagtga gccaagcgcc tggccattat 660
gatgatgaag aagcgggaga agtacctgta ccagaagatc atgtttggca agaggcgaaa 720
aatccgagag gccaacaagc tggcggagaa gcggaaagcc cacgatgagg cggtagggtc 780
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aggcccaccc agccccctac ctactgcccc cattcatcct ggctttccac agccccctcc 1140
cacacagttg gaccctgat tctcagggtg ctgtgatggg gtgagggtag ggggagcatt 1200
tgttattaaa tgactggact tttgtgcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaa cgcgtccg 1278
```

<210> 86

<211> 2585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2573)

<223> n equals a,t,g, or c

<400> 86

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accccgaggt gtcccttttg gctcgattcc caggaaactc ctccctcaacc cctttggcat 120
cagcattaca agccaaagcc tcaatccagg gccctttcgt actcctaaag caggagataag 180
gacctatcac ttccgctcca ccttggccga gttccagggt ataattggga ggaagagagg 240
aaatgtggaa aagggtctgg tggcaaagct gggaccagat ggtgcagctt tcctgcagat 300
tcccgcagaa gagatccctg cctacatgtc tgtgcatcga ctccctgagga agctgctaag 360
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tgctatgctt tccctggcca caggctggcc cactctggaa gcgacctctc tctgttagtc 480
ccagaaattg aagatatgta cagcagcccc tatctgcgcc cctcagaatc tcctatcacc 540
gtcgagggtc actgcaccaa tccaggcacc agatatgtct ggatgagtag tgggctctac 600
atacctggaa ggcaaattat agaagtctca ctgcctgaag ctgctgcctc tgccgacctg 660
aagatacaga ttggctgcca cacagatgac ctgaccaggg ccagcaagct tttccgaggc 720
ccactcgtaa ttaaccggtg ctgcttgagc aaaccacaaa aatcgatcac gtgcctctgg 780
ggtggactcc tctatataat tgtgcctcag aacagcaaac tgggttctgt gcctgtcacc 840
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gtcagaatct acctgagcaa ggtcccaat gtgaaaaact ggaatgcatg gmccgcactg 1440
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aagatgttct cccaccaagt gcagaagaac ctggctccgt tctttgaggc ctgggctggc 1620
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tcccagacat gggcgatggg gaggggaagag grataaggaa aagtcacgag gtaggawtta 2400
gggggccttg aaaatatgac aaactctgag gggaaacaaa grcmatktg gaaagawtaa 2460
cttaatttta attccatctc cagagagatt tgaggtgtat ttaagatgaa aaacaggata 2520
ctacaaagaa acgggaaaac tcaggggttc aagaccagcc taggcaagat ggnaaaaaac 2580
cccccc 2585

```

<210> 87

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 87

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gggtcgacc acgcgtccgc atgaatttgt cacaatctta tcaataatca ttactctgtt 60
ttttatattt caactaaaag tatcaaaata tagctttcca gaaaaccccg aaccaaagtc 120
actgactaca tcaaagtcct ctacaccttg agaaaacaaa tgaacgaaaa tctattttcc 180
tcattcatta cccaacaat aataggactc cctatcgtaa ttattatcac tatgtttcca 240
agcattatat tcccatcacc taccgactr aatcaataat cgactscatc tccattccaa 300
caatgattag tgcactgaac atscaaaaca aatrttgatc catgccacaa ccaaaaagga 360
caaactggag cccggatatt gatan 385

```

<210> 88

<211> 2500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (1088)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2480)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2482)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2491)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2497)  
<223> n equals a,t,g, or c

<400> 88  
tcgacccacg cgtccgccca cgcgtccgtc tccaccgctg ctgccgccgc cctggccgcc 60  
gccgcagtga aagctaagca cttggctgct gttgaggaaa ggaagatcaa atctttggtg 120  
gccctgctgg tggagacca gatgaaaaag ttggagatca aacttcggca ctttgaggag 180  
ctggagacta tcatggaccg ggagcragaa gcactggagt atcagaggca gcagctcctg 240  
gccgacagac aagccttcca catggagcag ctgaagtatg cggagatgag ggctcggcag 300  
cagcacttcc aacagatgca ccaacagcag cagcagccac caccagccct gccccaggc 360  
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tcaccgttcc ccaaccaaca aactcctccc tcaatgatgc caggggcagt gccaggcagc 660  
gggcacccag gcgtggcggg taatgctcct ttgggtttgc cttttggcat gccgcctcct 720  
cctcctcctc ctgtccatc catcatccca tttggtagtc tagctgactc catcagtatt 780  
aacctccccg ctctcctaa cctgcattgg catcaccacc atctcccgtt cggcccgggc 840  
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gttcatcact acgtaaggaa agctccttcc gccctccaa agccctcacc atgcctaaca 1260  
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ccactaaaaa ataaccaatt tttacatttt ttgaggggga gtgagtttta ggaaagggga 1560

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attaagattc cagggagagc tctggggata gaacagggcg cagattccat ctctcccaa 1620
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aaaaaaaaa aaaaaaaaa tngagggggg ncccggnacc 2500

```

<210> 89

<211> 1409

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 89

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catcgatgag gctggccact gcatggagcc tgagaagtct ggtagctata gcagggtga 180
tggaagtaaa ggaacagggt gatccaggag ggcagctggg gctggcagga gaccctcggc 240
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tggarcggct gctcacctac aactccctgt acaagaaggg ccctgatggc tatgacccc 360
agttcataac caagctgctc cgcaactaca ggtctcatcc caccatcctg gacattccta 420
accagctcta ttatgaaggg gagctgcagg cctgtgctga tgtcgtggat cgagaacgct 480
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gttcagtaga agaattccaa ggccaagaac gaagcgtcat cctcatctcc accgtgcgaa 840
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tgaaagacaca gacccagcc ttctgcacc agccaagcct taactgcctg cctgacctg 1260
aaccagaacc cagctgaact gccctccaa gggacaggaa ggctggggga gggagttaac 1320
aaccgaagcc attyacccck cctccctgct ggggagaatg acacatcaag ctgctaaca 1380

```

ttgggggaag gggaaggaag aaaactctg

1409

<210> 90

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<400> 90

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 tcaactcccg gcctaccagc aggtctctcag cagggttaaa gaagctaagc aaaaaagcca 180  
 acagaccatt tctcagctcc attctactgt tcacctgatt gaatttgcca ggaagaatgt 240  
 gtatagtgcc aatcagaaaa ttcaggatgc tcaggataag ctctacctct catgggtaga 300  
 gtggaaaaag agcattggat atgatgatac tgatgagtc cactgtgctg agcacattga 360  
 gtcacgtact cttgcaattg cccgcaacct gactcagcag ctccagacca cgtgccacac 420  
 cctcctgtcc aacatccaag gtgtaccaca gaacatcaa gatcaagcca agcacatggg 480  
 ggtgatggca ggcgacatct actcagtgtt ccgcaatgct gcctccttta aagaagtgtc 540  
 tgacagcctc ctcaacttcta gcaaggggca gctgcagaaa atgaaggaat ctttagatga 600  
 cgtgatggat tatcttggtta acaacacgcc cctcaactgg ctggtaggtc ccttttatcc 660  
 tcagctgact gagtctcaga atgctcagga ccaagggtgca gagatggaca agagcagcca 720  
 ggagaccagc cgatctgagc ataaaactca ttaaactgct ccctatcact agtgcatgct 780  
 gtggccagac agatgacacc ttttggtatg ttgaaattaa cttgctaggc aaccctaaat 840  
 tgggaagcaa gtagctagta taaaggccct caattgtagt tgtttccagc tgaattaaga 900  
 gcttttaaagt ttctggcatt agcagatgat ttctgttcac ctggtaagaa aagaatgata 960  
 ggcttgctcag agcctatagc cagaactcag aaaaaattca aatgcactta tgttctcatt 1020  
 ctatggccat tgtgttgctt ctgttactgt ttgtattgaa taaaaacatc ttcattgtgg 1080  
 ctggggtaga aactgggtgc tgctctggtg tgatctgaaa aggcgtcttc actgctttat 1140  
 ctcatgatgc ttgcttgtaa aacttgattt tagtttttca tttctcaaat aggaatacta 1200  
 cctttgaatt caataaaatt cactgcagga tagaccagtt aaaaaaaaaa aaaaaaaaaa 1260  
 aaaagggggg ccgccaaggg grtncccccg agggggggccc cagctttacg cgtggcgtgc 1320  
 gacgtccaaa gcnccc 1336

<210> 91  
<211> 787  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (677)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (725)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (742)  
<223> n equals a,t,g, or c

<400> 91  
ggcacgagct gtggggctgt gggcctgtta ccccaggcg cacagctccc tccggctggg 60  
cccaggctcc actcagtgc acggctcaag tctacatgga gctgcagggc ctggtggacc 120  
cgcagatcca gctacctctg ttagccgccc gaagtacaag ttgcagaagc agcttgatag 180  
cctcacagcc aggaccccat cagaagggga ggcagggact cagaggcaac aaaagcttcc 240  
ttccctccag ctggaattgt caaaactgga caaggcagcc tctcacctcc rgcagctgat 300  
ggatgagcct ccagccccag ggagcccga gctctaactc atcatcccca tcagttttcc 360  
tccctctcag acctgtcttt gaggacaaaac agatttgtca gctgtcaggg tgcagtggga 420  
cgtcagagac tatgtgggtcc atcgcccttca ttgtgtaaat gaggacacag actggcttgg 480  
tcgcagtgc tgtggtgtcc ttgagatgct cacattactg cccggcctgc ctcccacctg 540  
gaagtctggg aatgaggaga ttgagataaa cttttgaaat cccaaacatg tctgtttatg 600  
gctctttggt cccctttgct cccagtgggt acttttgtgc ttctgagttg tcccctgaga 660  
gcttggtctg ggaaanagg aaggaagggg tcctcactgg aggaagagga acctttctaa 720  
gtcangggtg aggggaatgg gnacagttgg ttcccgggtc taacctcctt ttctggactg 780  
acaagtg 787

<210> 92  
<211> 1657  
<212> DNA  
<213> Homo sapiens

<400> 92  
cgcgtccgcc cacgcgtccg cccacgcgtc cggctactca gaggaagggg cggttggtgc 60  
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ggcgctttgg ttccagagga ggcccaggag gagggttcag gccctttgta ccacatatcc 180  
catttgactt ctatttgtgt gaaatggcct ttccccgggt caagccagca cctgatgaaa 240  
cttcctcag tgaggccttg ctgaagagga atcaggacct ggctcccaat tctgctgaac 300  
aggcatctat cctttctctg gtgacaaaaa taaacaatgt gattgataat ctgattgtgg 360  
ctccagggac atttgaagtg caaattgaag aagttcgaca ggtgggatcc tataaaaagg 420  
ggacaatgac tacaggacac aatgtggctg acctggtggt gatactcaag attctgccaa 480

```
cgttggaagc tgttgctgcc ctggggaaca aagtcgtgga aagcctaaga gcacaggatc 540
cctctgaagt ttaaccatg ctgaccaacg aaactggcct tgaaatcagt tcttctgatg 600
ctacagtga gattctcatt acaacagtgc cacccaatct tcgaaaactg gatccagaac 660
tccatttga tatcaaagta ttgcagagt ccttagcagc catccgacat gcccgctggt 720
tcgaggaaaa tgcttctcag tccacagtta aagttctcat cagactactg aaggacttga 780
ggattcgctt tcctggcttt gagccctca caccctggat ccttgacctg ctaggccatt 840
atgctgtgat gaacaacccc accagacagc ctttggccct aaacgttgca tacaggcgct 900
gcttgcatg tctggctgca ggactgttcc tgccagggtc agtgggtatc actgaccctc 960
gtgagagtgg caactttaga gtacacacag tcatgaccct agaacagcag gacatggtct 1020
gctatacagc tcagactctc gtccgaatcc tctcatatgg tggctttagg aagatccttg 1080
gccaggaggg tgatgccagc tatcttgctt ctgaaatata tacctgggat ggagtgatag 1140
taacaccttc agaaaaggct tatgagaagc caccagagaa gaaggaagga gaggaagaag 1200
aggagaatac agaagaacca cctcaaggag aggaagaaga aagcatggaa actcaggagt 1260
gacattccct tcaactcctt tcctacccaa gggggaagac tggagcctaa gctgcctgct 1320
actgggcttt acatggtgac agacatttcc gtgggatagg gaagatagca ggaagaaaag 1380
taaaactccat agaagtgtca ttccactggg ttttgatatt ggcttagctg ccagtctccc 1440
atttgtgacc tatgccatcc atctataatg gaggatacca acatttcttc ctaatatctc 1500
ataatctcca actcctgaaa acccctctct caactaatac tttgctgttg aaatgtgtg 1560
aaatgttaag tgcctgaaa ttttttttc taagaaaaac tattaaagta cttcctagta 1620
ggaaaaaaaa aaaaaaaaaa aaacycggg gttttct 1657
```

<210> 93

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<400> 93

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aattcggcac gaggggttct gcactaacag cctccaagcc ccctggcact tcttttggcc 60
tgagagtgtc ccaggggatt cagagtctcc agaaagatat ggctrggcca actctgttgc 120
ctacctrgcc tgaccagtc ggagcctgac atggtggagg gaaagggaga caagtggggc 180
tgactcgggt ccagaggcca gctaggagg aaaccgcagc ttcctggggc ttgtgtgtga 240
agattcctga cttagggtgt gcttttgttt acaagatgca agaggggaaa cctgtccccg 300
actcatcgag acaacatgcc cagttatcag ggagtccgtg gtcacaaggt ctgtctctgc 360
cattgtaagc aagtgccttg ggcgagctgg cctctgcccc acagtctcat ctgtacaccg 420
acaggggttg tgccctccctc acagggttga gaacaagagc cakttggccca attaaaanaa 480
aaaaan 485
```

<210> 94

<211> 764

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (202)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (565)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 94

```

ccccagccag tctgccctct gccatggggg gcggagagga cgaggaggag gccaccgact 60
atggaggggac ctacgtgccg actgccgggg aggccgtgcg ggggctagaa acagctctgc 120
grtggttgga gaaccaggac cccagagagg tggggccact gaggctggtg cagttgcgct 180
cactcatcag catggcccgg angctggggg gcatcgggca taccacagca ggcccctatg 240
acggtgtgtg accaggccas cccagtgcac tttctcctgc tgcacttgga gggaggggac 300
atacacacag tctcccatct ctccctccct cccctcgggg tggcccaccg catgggtaca 360
gggggttcca ggaatccaaa tccagcatgg cttggaggag ctctgttggg gagaggctgc 420
cctgcctcac tggcaccctg ggggcacagc tgggaagagag gcctggccca tgctcctctc 480
agggcaggca catgtacggg gcatacaagg cacagcgctt gttggaacag gtggtgtgtg 540
tcctgctctg gccccgtgc ggctngcctc cgcccctgca ccagtcacat gcactggacg 600
agggccgaaa ctccctgtctg ctatcgagcc ctggtgctat gtggccccgg agccacagca 660
caatcatctc agtgccgaag cacaccactt gattctatct ttttttaaca cattaaatct 720
gtttttaaag ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 764

```

&lt;210&gt; 95

&lt;211&gt; 707

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 95

```

athtaggtga cactatagaa ggtacgcctg caggtaccgt tccgnaattc ccgggtcgac 60
ccacgcgtgc catcatggcg caggatcaag gtgaaaagga gaaccccatg cgggaacttc 120
gcatccgcaa actctgtctc aacatctgtg ttggggagag tggagacaga ctgacgcgag 180
cagccaagggt gttggagcag ctcacagggc agaccctgtt gttttccaaa gctagatata 240
ctgtcagatc ctttggcatc cggagaaatg aaaagattgc tgtccactgc acagttcgag 300
gggccaaagg agaagaaatc ttggagaagg gtctaaagggt gcgggagtat gagttaagaa 360
aaaacaactt ctcatgatac ggaaactttg gttttgggat ccaggaacac atcgatctgg 420
gtatcaaata tgacccaagc attggtatct acggcctgga cttctatgtg gtgctgggta 480
ggccagggtt cagcatcgca gacaagaagc gcaggacagg ctgcattggg gccaaacaca 540
gaatcagcaa agaggaggcc atgcgctggt tccagcagaa gtatgatggg atcatccttc 600
ctggcaataa aattcccgtt tctatccaaa agagcaataa aaagttttca gtgaaaaaaa 660
aaaaaaaaaa aaaaaaaggg ggcccccttt tgggggtccc ctggggg 707

```

&lt;210&gt; 96

<211> 815  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (16)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (45)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (50)  
<223> n equals a,t,g, or c

<400> 96  
aacccttac tccctnccgt aatttttgta agcccttaaa ataanaaatn aaaaatycca 60  
taaccctcaa agaagaatcc cccccacatt waggcttggt aagtaaatgc ctctgaccc 120  
caagcccgaa gatgcccccc attctctwag tgatggcggc gttaggggtt gagagaagg 180  
aatgtggctc aacttcagtt gagaggggtgc agtccagaca gcttgactgc ttttaaatga 240  
ccaaagatga cctgtggtaa gcaacctggg catcttagga agcagtcctt ggagaaggca 300  
tgttcccaga aaggtctctg gagggacaaa ctactcagt aaaacataat gtatcatcat 360  
gaagaaaact gattctctat gacatgaaat gaaaatttta atgcattgtt ataattacta 420  
atgtacgtg ctgcaggaca ttaataaagt tgctttttta ggctacagtg tctcgatgcc 480  
ataatcagaa cacacttttt ttcctctttc tcccagcttc aaatgcaaat tcatcattgg 540  
gtcacttct aataactgca gtgtttcccg ccttgggctt gcagcagaaa aacctgacaa 600  
catagtgtt gctaaggcag taatttagac tttaccttat ttgtgattac tgtagtgatt 660  
gattgattga ttactattaa ctacaaggta taatttacta tcaccttatt taaattttat 720  
gaattaattt gaatgttttt tacactaact aacttttccc aataaagtcc actatgaaac 780  
cacgacaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 815

<210> 97  
<211> 658  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (627)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (634)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 97

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catcattggc gcggggctgt cagcggccgg acgcggtcct ctacgcccgc cactacaaca 60
tcccggatgat ccatgccttc cgccggggccg tggacgaccc tggcctgggtg ttcaaccagc 120
tgcccaagat gctgtacccc gagtaccaca aggtgcacca gatgatgcgg gagcagtcca 180
tctgtcgcc cagcccctat gaggggtacc gcagcctccc caggcaccag ctgctgtgct 240
tcaaggaaga ctgccaggcc gtgttcagg acctcgaggg tgcgagaag gtgtttgggg 300
tctccctggt gctggtcctc atcggctccc accccgacct ctcttctctg cctggggcag 360
gggctgactt tgcatggat cctgaccagc cgctgagcgc caagaggaac cccattgacg 420
tggacccctt cactaccag agcaccgcgc agraggcct gtacgccatg gggccgytgg 480
ccggggacaa cttcgtgagg tttgtgcagg ggggcgcctt ggctgtkgcc agtccctgc 540
taaggaagga acagaaccac ctacatcgcc aaccctggtc cagcctraga ggaatacatc 600
ctctgatcga cctcaaatec ggagttncct cttnncttgt caaattgacc gccaata 658
```

<210> 98

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<400> 98

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aaaatggtag acctgacagt accgggtccgg caattcccgg gatthttgagc tgggggtttg 60
agactscct tagagataga gaaacagacc caagaaatgt gctcaattgc aatggggccac 120
atacctagat ctccagatgt catttcccct ctcttatttt aagttatgtt aagattacta 180
aaacaataaa agtcctaaa aaatcaaaaa aaaaaaaaaa aaaaaaaaaa aaccccgggg 240
ggggcccng 249
```

<210> 99

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 99

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acggttcaa ccgcagcttc tgccggccga acgccacggt ctacgggaag ggcgtgtatt 60
tcgccaggcg cgctccctg tcggtgcagg accgtactc gcccccaac gccgatggcc 120
ataaggcggg gtctgtggca cgggtgctga ctggcgacta cgggcagggc cgccgcggtc 180
tgccggcgcc ccctctgcgg ggtcctggcc acgtgtcct gcgtacgac agcgcctggg 240
actgcatctg ccagcccagc atcttcgtca tcttcacga caccagggc ctgccccacc 300
acctcatcac ctgcgargca cgtgccccgc gttcccccg acgaccctc tgggtcccg 360
```

```

ggccgctccc cagacactta accgaagggg ccaccctctg gcctcctgct tcccaggctc 420
ccagctccgc acaggctgat gctccccgcc cccaactgtg gccgcctgag ctgtccccgg 480
ggasgccctg cctccctctg cgggctccag aaggcgggtg gggggatggc ggtcagcagc 540
ggccgagggg ggccgggcta ggtcccagcc tgggcccacc ccaccaccag gggtcagcag 600
agcccaggag gngacaccgy ccgcccgccg ctcccagacc tcgcccgagt cggctctgtt 660
gtttgaataa acgtgaacgt gaaccacggc ggaagggacc cgggaaaaaa aaaaaaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                                     752

```

<210> 100

<211> 3059

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3019)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3047)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3058)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3059)

<223> n equals a,t,g, or c

<400> 100

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ggggtaaaac ccngaaaaa aactccanat tttaattaaa tggcctctc cttcccccc 60
ttctttccc ccgtccccca actcccttc ctgcctctt tccccccnc ccctctccct 120

```

tttctcccca tctttcacct tcctaatttc agtgaaattg gagcgatttg aaattccaat 180  
caaggttcga ttaagcccag agccatggac ccctgaaact ggtttggtta ctgatgcttt 240  
caaactgaaa aggaaggagc tgaggaacca ttacctcaaa gacattgaac gaatgtatgg 300  
gggcaaataa aatggtgttg tcttattgac agttgtgcag gaggtagcct ggtggttttc 360  
aacctctaga attttaagcc tttgttgaac tgttagaatg taaggatat cattctaaa 420  
atagagtaaa aagaaaacaa aacaaaagt tattaaaatt gttgtccggt ttactttaac 480  
ttagttttgc atagttctag tgcagctgaa attgaaaagt tatttccctt tagctgtgtt 540  
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aaaaatattt aatgttgaac aaaataaatt ggagttggag tagaatgtag tttgaggaaa 660  
tttgagctt ccaatgcctc ttgtcttcct atttcagaag tttaaatatt aagcatgaca 720  
gaaaatatgt attaacacta ctcaaagcaa aagtgcctga gggctttaaa attctcttcc 780  
aaccatttat ctggaaggaa aaattcaata gtaataaat acmcaaaatc aaataatacc 840  
ttagaaggta ttaagattat aattgttgca taggttagat atagagtcac tgtaatgttg 900  
tgaataatta cagtgcctaa aataagaata gaacaacata tacaacacca aaaaatatct 960  
agtaatatat ttaaaggga attgagctgc ttttttgaa actttgagat ctaaaaataa 1020  
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tgggattata tatccctgat aaatattcac acttgaacca tagttactgt aaaatgcaa 1680  
aaatcttaat actgttatct tttgcacttt ttcttaatca ttttttatat atatgcatat 1740  
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caaaatacat tctttttgct ctaaaatatt tatgaagaaa atacttaaat gttatgtata 1860  
tgggtgtaat aagggaataa tcaagtatta taaacaagaa tgaaggtttt tgtaaagatt 1920  
tctgttcagc gttttgcaag gtaaaatttt aggcaagttt tccctgaagt tatgtgtatg 1980  
tgagtattct cattcttccc aacttgcctt tgaagagtga aatacatta ttatcaagta 2040  
gactactggt cagcttttat tcttgcctg ctgtttatcc cttagaatg agtttcttag 2100  
acttttccaa tatgtgattt ttttcccat ttgaatggt gattttaaat gtgtgagtgc 2160  
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aacactgcc aactgatctgt tataggctct ttagaaacac ataattaaca cttagggtg 2280  
gggtgctgcta attctttgca aaaatccaaa tattgttaag ggaccagga gatgccacta 2340  
ccccttgatt ttccatctaa aaatatacat gtttatgtaa acaaatcttt ccatatccat 2400  
agtactttt caagtattta agcctaaaga ttttgatctc acatttttat acctgtttta 2460  
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tcttgcctcc ttgatatttg tatttattct ttttttctct agagtagagg tataattgtg 2640  
tgatatttca gaaatacaga taaatgatc aaaaagtcac agttaaggag aatcatgttt 2700  
ctttgatcat gaataactga ttagtaagtc ttgcctatat tttcctgata gcataatgaca 2760  
aatgtttcta aggtaacaag atgagaacag ataaagattg tgtggtgttt tggatttgga 2820  
gagaaatatt ttaattttta aatgcagtta caaattataa tgtattcata ttgtacttt 2880  
ctgttaaaat gcatgattgc agaattgttt agattttgtg tttattcttg atgaaaagct 2940  
ttgtttgttc ttgtttttta gtttgcactc aaatcttaag aaataaatcc acccatgtta 3000  
tcaaaaaaaa aaaaaaaanc ccgggggggg gcccgaacc aaatccnccc aagggggnn 3059

<211> 1682  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (52)  
 <223> n equals a,t,g, or c

<400> 101  
 ggcacgagga tggawgcctg atgggggtgca gacacagatg gcaccccagg rntgtgccat 60  
 tccaccagac gtctcctaag acagagttag agtcaacaat ctttggcagt ccgaggctgg 120  
 ctagtgggct cttcccagag tggcagagct gggggagaat ggagaacttg gcctcttattc 180  
 gatgaattaa gcaacaatgt aactggctct gacttgatcat attcccccat gcaatcctag 240  
 gtctgtattg ctcaatttta ggaagccttt gctactccat cagtaggttt agatttgagc 300  
 ttttgagacc tggctatgga aaagaaagac acttgagaat ttagtggttg ggtctgtaca 360  
 gatgatgcta cccaatttgg ctttgaagga tcaagtaaca ggttgaaaac tattttttata 420  
 aaggaatac tttttcagtt cccttcttcc ttccctctca atccactagc tttcatgttg 480  
 ggcaaggaaa agttgaggaa ggatggctga tggatgatgga aagctgtgtt aatggatga 540  
 ggaatgtgtg aaaagtatac acaaagggct ctgaagctca agtcagagga gtgggaggtc 600  
 tgatcattgt tgggtgaaaa acgtaagggt attttgtgtt ttttaagttg ttttacaatt 660  
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 ccggagaatc aagatcttaa gtgaagcctt tctgttcaga tgtgatctat aaaaaatcat 840  
 aatttgggga aagtttaagc aaatctggct ttgtagtctt gatgttataa gtgactttgt 900  
 gatcaaactg tcaggcttgg gttcttgtta tagaatgctt ggtatagaaa aacctgtcca 960  
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 aa 1682

<210> 102  
 <211> 938  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (30)  
 <223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (812)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (913)  
<223> n equals a,t,g, or c

<400> 102  
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cgagtccgac tccctcaagg gtgacgcgag ctctgccctt taaccggaaa cgtctccctg 180  
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cccggagctg gaggttatggc ggctacggag ccgattcttg cggccactgg gagtcccgcg 300  
gcggtgccac cggagaaaact ggaaggagcc ggctcgagct cagcccctga gcgtaactgt 360  
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<210> 103  
<211> 2012  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1993)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2002)  
<223> n equals a,t,g, or c

<400> 103  
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tctctttccc agaacaatct ggagtttgcc agaaaactct gtaaacagga gtcgtgctgt 180  
gtgtgaactg taaactcttc tctccaggcg tcgaggggac ctttgcttta cttgcagct 240  
gggctacatc agacgtgtgc attggaaaca taaacttcct taactgggaa aagaatgctt 300  
ctctgtcttc maaatarttc tgctatgtga catttttgcc atcatgaatt ttacatcagt 360  
gmtagctctt tgttttacgt gtttcattkg gcaggtcaca aaggctcttg gctaccacac 420  
atacgtgcat acacacacac acacacacac acacacacac acacactcat aaaggatttt 480

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cttttctgct ttaccttta ttttcagtct acttggcttg taatgaaagg tagagcctta 540
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tgctgttgcc aggcaaatgt aaagtctaga aaataatgca aatgtcacgg ctactctata 1560
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actttttaat aaagtatatt gaaagttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 2012

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&lt;210&gt; 104

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 104

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tcctcctggg aagcctggcc tgcctncccc gcaaaagggtg tttttgcgct ggttcaatga 60
atagatgatg cagaggcccc attggagaca cgtgaatggc gtgtgcggcc atcagttccc 120
ggctgggggg caggtgttgc ttcggcccc gccctccggc cggcgtgtgc gagtgcgcc 180
ctggctgtga gtgttgaccg ttcctctccc ctgtacatag cmcagaccag tcctgagtgg 240
gtgactcctg agtgggtgac gcgcagacgg gatttctcag gtcatttcta tggctgacat 300
gatggctgct gctttggctg ccaccacccc cgggcccagc ctgtctgaaa ttcagggttt 360
aggccgaaaa acccggtggg gaggggtggg gaagccggagm tctgtggcgg ggctggaggg 420
ctggggtgca ctttagtttg gggcgggacg ggagccggccg ttgtgactgg cgtggtctgg 480
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ggctctgact cggctcccta ctcctgcac ccagctgggc gcaattgggg cctgcgggtc 600
gaatgtatcc ctccctcag ttttaacctg agctgccgaa cgcacagtgg gccggggggc 660
aggctggggg aagcggggcc caattacgga tcccgagggt tacagggtcc gacgtgatgt 720
cgcttctctg gtgccagct cccttcctgg tctgagacta gctctggggg tggcgggggc 780

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ccccamacgc tgctcccgct ccaccctgcc cgtgctgctg ctctgtgcct gctgtcagag 840
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ttgcggagag ccgcttatgg gtgtggtccg tccagacacc ttgtttcaag ggggatgggc 960
gtgagcgggc aagcagagca tccccaccgc tgagcaagaa ctttttcttg tttttaaac 1020
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aaaaaaaaaa attc 1094

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<210> 105

<211> 2297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 105

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aaaggaaggc caggggttca cataggggcc cagcgagttt cccaggagtt agaggggatgc 180
gaggctaaca agttccaaaa acatctgccc cgatgctcta gtgtttggar gtgggcagga 240
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tgcttccttc ttgccacagc ctgggttctc tccaccacgt aggttttctg ttgtggtccc 360
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cagggttttt gacggagaca gcaaataagg ctctgcaaat caatcaaagg ctgcaaccct 480
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gtcggctctg actctcctga ctctccatcg ctctgtccaa ggagaacccg gagaggctct 600
gggtgattc agaggttact gctttatatt cgtccaaact gtgttagtct aggccttagga 660
cagcttcaga atctgacacc ttgccttgct cttgccacca ggacacctat gtcaacaggc 720
caaacagcca tgcatttata aaggtcatca tcttctgcca cctttactgg gttctaaatg 780
ctctctgata attcagagag cattgggtct gggaaagagt aagaggaaca ctagaagctc 840
agcatgactt aaacaggttg tagcaaaagc agtttatcat caactcttcc agtggtaaac 900
tgtggtttcc ccaagctgca caggaggcca gaaaccacaa gtatgatgac taggaagcct 960
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gataaggaaa gctagcagaa agtttattta aaccacttct tgagctttat cttttttgac 1140
aatatactgg agaaactttg aagaacaagt tcaaactgat acatatacac atattttttt 1200
gataatgtaa atacagtac catgttaacc taccctgcac tgctttaagt gaacatactt 1260
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aagatctagt ccaatctttt tctagagaaa aagataatct gaagctcaca aagatgaagt 1620
gacttcctca aaatcacatg gtccaggaca gaaacaagat taaaacctgg atccacagac 1680
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tgaacaattc tttctttctg ccaagaaaca aagttttgga tgagctttta tatatggaac 1920
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aacagtttgc ccaggaactg ggggatcata tatgtcttag tggacagggg tctgaagtac 2160
actggaattt actgagaaac ttgtttgtaa aaactatagt taataattat tgcattttct 2220
tacaaaaata tattttggaa aattgtatac tgtcaattaa agtgtttttg tgtaaaaaaa 2280
aaaaaaaaa actcgta 2297

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<210> 106

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<400> 106

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tatttgcmtc gtttttcttg cttgttttcc ccccgtaga cttgtcggt agagcgcgg 120
tatgggccgc aagaagaaga agcagctgaa gccgtggtgc tggattgta atagagattt 180
tgatgatgag aagattctta tacaacacca aaaagcaaaa cattttaaat gtcatatatg 240
tcataagaag ttgtacacag gacctggcct agctattcat tgcattgcagg tgcataaaga 300
gacaatagat gctgtaccaa atgcatacct gggagaacag acatkgattg gaaatatatg 360
gtatggaarg tattccagaa aaagatatkg atgaaagaag acgacttctt ggaacagana 420
acnccagaga gtccaaaaaa ag 442

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<210> 107

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<400> 107

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ttgatctgcg gctgtcgagg cctgaggcag tggaggctga ggctatgat gcggccatgg 60
cgacggctcg agtgcggtg gggccgcggg gcgccaggc gctctggcgc atgccgtggc 120
tgccggtggt tttgtcggtg gcggcgcgcg cggcgcgggc agcgcgggag cagcaggtcc 180
cgctggtgct tgggtcgagt gaccgggact tgtgggctcc tgcggccgac actcatgaag 240
gccacatcac cagcgacttg cagctctcta cctacttaga tcccgccttg gagctgggtc 300
ccaggaatgt gctgctgttc ctgcaggaca agctgagcat tgaggatttc acagcatatg 360
gcggtgtggt tggaaacaag caggacagcg ctttttctaa cctagagaat gccctggacc 420
tggccccctc ctcactggtg cttcctgcgg tcgactggtg tgcagtcagc actctgacca 480

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cttacctgca ggagaagctc ggggccagcc ccttgcatgt ggacctggcc accctgcggg 540  
agctgaagct caatgccagc ctccctgctc tgctgctcat tcgcctgccc tacacagcca 600  
gctctggtct gatggcacc agggaagtcc tcacaggcaa cgatgaggtc atcgggcagg 660  
tcctgagcac actcaagtcc gaagatgtcc catacacagc ggccctcaca gcggtccgcc 720  
cttccagggt gggccgtgat gtagccgtgg tggccggagg gctaggtcgc cagctgctac 780  
aaaaacagcc agtatcacct gtgatccatc ctccctgtgag ttacaatgac accgctcccc 840  
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ctccctcac ctttggggtg caggaaactca acctgactgg ctccctctgg aatgactcct 960  
ttgccagcty tcaactgacct atgaacgact ctttngtacc acagtgacat taaagttat 1019

<210> 108

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<400> 108

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ttgttctctt tgaccatttt cctataatga tgttgatgtt caacacctgg actgaatgtc 120  
tgttctcaga tcccttggat gttacagatg aggcagtctg actgtccttt ctacttgaaa 180  
gattagaata tgtatccaaa tggcattcac gtgtcactta gcaaggtttg ctgatgtctc 240  
aaagagctta gtttgyggtt tcctggacgt ggaaacaagt atctgagttc cctggagatc 300  
aacgggatga ggtgttacag ctgcctccct cttcatgcaa tctggtgagc agtggtgagc 360  
gcggggagcc agagaaactt gccagttata taacttctct ttggcctttc ttcattctgt 420  
aaacaaggat aatactgaac tgtaagggtt agtggagagt ttttaattaa aagaatgtgt 480  
gaaaagtaca tgacacagta gttgcttgat aatagttact agtagtagta ttcctactaa 540  
gacccaatac aaatggatta tttaaacca gtttatgagt tggttttttt cattttcyat 600  
ttgtatttta ttaagagtgc ttttcttatg gtgatttttt tnaattgcga tttgatattg 660  
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<210> 109

<211> 743

<212> DNA

<213> Homo sapiens

<400> 109

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atttcatatt atataattct gcttattctt tcaaaaattt atacatccat tgggcaagga 180  
atggtttttca ttaaattacc aatattaaat gcacttaatc attgtgtata ggttaaacca 240  
aagtaactat taactaactt ttaggcattt taaggaggta aaacatacat tttacacata 300  
aatatttgat gcaaatatgc agataaaatt ttttaaaaat tagaactg agtaaaacac 360  
ctttgataga ttatattgtt ttgttttgag agcaaggatt tccagatatg ttcattcttt 420  
aaaacactca gctttggtt ctttgtttcc caaactgcaa agctgctgat aacaaaactc 480  
caggattcca tgtgagttca gctatgtcta ctttaacaca aatattaaaa cagaattcag 540  
raatgcagt attaaggatc cagcttctat tgaaaccaat atccatttgc atcataacaa 600  
caaacatttg aatgagatgg tcacacttgt acttatcagc aggttccttt aataacaaag 660

actactaaat gtatatacctt aatcacaaaa gaacaacaaa aaaaatacag gttttttttt 720  
tttcatttcg tacaaaagtc acc 743

<210> 110

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (645)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 110

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tatttgtatt acaaagaact tgaaatttac tttcttagtt gattatatta aatgatgtat 120  
atattatatg tgggtttataa gctcaacact ggccattttt ttagttttat tgttaaatgg 180  
tatttttcta tgtttaatta taatagatct ggctttttct ggatagcata aagatcactg 240  
aactatatat atataagara caagagttct attttagcac aaaggcattt tatattattt 300  
attgaatcca taagtttggtt ttcgtcaaaa acattccata ttatttctgc tcctttttat 360  
ttgtatagtt tgttatttaa agaaatggca gtccttcctg ttcttaatac aataaaaattg 420  
aaataatgca cctagtaatg tggccgacat ctcttctcac caccatggac tgttttcaac 480  
aacagttgat cttctggtct gtgctgagag gcgcatgcat gtctttcgtc acgtcgggca 540  
gcacacctgc tgtgaaatac tgctttcatc tacctcttca gaaggcttct tgcttgttga 600  
caagtaccgc aaaggcttta ttctggactg gctatctcat aaaanggatt tctgtaagac 660  
tttgcagtgt cattccctca gaaccyaggt ttgtttctaa agccacggta ttgtccrrgr 720  
rccctgtgt ktggggncag gtagctatcc ctcccatgtc attagtaatc ctttaggatt 780  
ttaagggtaca atggg 795

<210> 111

<211> 1332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1300)

<223> n equals a,t,g, or c

<400> 111

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ccccagggga cacaacccct ggtcttggac cagtagagga cacggagggt tcagaccctt 120
cctcagaccc tccccacatc tgaaactgcc tcccccaac caccagcagc agcagggccc 180
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agagcccaac tttcctaact cgtgctccct tccgccttct tttccgtact gtgaagaaag 360
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ccagaagaaa cagccccctc tgctgctggg gtgggactgt ctgtgtgccc tgtgggggtc 480
cgtgtgagca ggcccacctg gctccagacc cgcccccaac ctgagacaga accaggctga 540
gccaggcctc cacccccacc cccgtttgct gggggctcct ccagccgccc ccatgggraag 600
aggcctggta ccgsctcacc cacagaggtc tgtgccaggt gcgcttctgc aggtggagcc 660
aagctctccc tgaggccaga ggcggggcct gggccgggag cccaggggaa ggccaggctg 720
gaccccggtc ycacaccac atccagcctg caggcctctc tgcagtcctc tcaccctccc 780
tmagctcccc ttcctctgca gtcaccctca gctcccttcc cttgcccgcc tctccccccg 840
ccgccccacc agttaaacgg atgaccaaag acctttctta tgccggaagc aaaaaccaa 900
actttttgtt ggctttttcc tttgtsgcct ccccagcacc tgccctccca gtctccacc 960
ccggccccag gctggaagcc tccctccact taagttattg ttttaaacca aagtttacag 1020
tgtctgttgg tggccaagac cttctctctc caccctcct ccatccacc tgaggaccct 1080
ggggctcagt ggaggcaggg cctgcccccc ctccctttc cggctcctgg cccagcctgg 1140
ggggaaggga raaaggagg gggaraaagc ggggttcttc accccctcag ggantggggc 1200
acggggagcc ctttcttccc tggaccctgg ggcttgnttc ntgggggggc tcttccaaga 1260
acccctcttc taagggaacc aagtttcacc cgttcgtggn tgggggatgt tgggatttct 1320
aaggcaaaag ag 1332

```

<210> 112

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 112

```
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ggtgcggatg gccagctcca ggatgaccgc cggggaccgc ctcacaaata aggtggccct 120
ggtaacggcc tccaccgacg ggatcggctt cgcacgcgcc ggcgtttggc ccaggacagg 180
gccacgtggt cgtcagcagc cggaagcagc agaattgtga ccaggcgggtg gcacgctgca 240
rggggagggg ctgagcgtga cgggcacctg tncantgntg ggggaaggcg aggaccggga 300
gcggctggtg gccacggctg tgaagcttca tggaggtatc gatatcctag tctccaatgc 360
tgctgtcaac cttttctttg gaagcataat ggatgtcact gaggaggtgt gggacaagct 420
ctggatggac aaggaaaaag aggaaagcat gaaagaaacc ctgcggataa gaaggttagg 480
cgagccagag gattgtgctg gcatcgtgtc tttcctgtgc tctgaagatg ccagctacat 540
cactggggaa acagtgggtg tgggtggagg aaccccgctc cgcctctgan ggaccgggag 600
acagcccaca ggccagantt gggctctagc tcctggtgst gttcctgcat tcamccaytg 660
gscttttccc acctytgytc amcttactgt tcacctcatc aaatcagttc tgccctgtga 720
aaagatccag ccttcctgc cgt 743
```

<210> 113

<211> 1690

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1659)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1664)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1676)  
 <223> n equals a,t,g, or c

<400> 113  
 aattcggcac cactcagtc caccaggcctc ggccagggac acaccggcca cgtccgcttc 60  
 ttggctgcag tccagctgcc agatggcttc aacctgctct gcccaccccc accacctccc 120  
 ccagacacag gccccgagaa gctgccatca ctggagcacc gggactcccc ttggcaccga 180  
 ggccccgccc ctgccaggcc taaaatgctg gttatcagtg gaggtgatgg ctatgaggac 240  
 ttccgactca gcagtggggg cggcasagca gtgagactgt gggtcgagac gacagcaca 300  
 accacctyct cctgtggagg gtgtgaccct gtctgccgtg gcccaggact sgcccgccca 360  
 cctgccttca gctgtcttgc ctctccctag cccacacgca gactttgacc aggagtatcc 420  
 agccagggga cacatgtgcy kgcrtgggct ctgcttgctc tcgcggaaga ttcctgatgg 480  
 aacacccact ggccagccag gccatggctt ctcccgaccc tctggctgcc ccggtgcttc 540  
 cagtcatgat cgggtggggg acatgtgggc tgaccaggac ctctgaccct ggagcttcta 600  
 ccaaagacac agctgggtct ggacccacag ggsstgggga ggcccatgtg caatatattg 660  
 aggggtttct ggagggcagc aggaaggctg gggaattccc catgtacagt atttatgttt 720  
 ctttttagat gtgtaccttc ccaagcactt atttatgcag tgacctggtc acctggggtg 780  
 ggggtgattt gaggaatga catgaggaaa agaaacctat tcctgccctg gggaccacc 840  
 tgggactcta accaagcctt cctggaggga cccatgcgcc cctgagcccc attccattca 900  
 tacagacaca cactgacgca cactgcatgt ccaaggccct aaacattgcc cgttgacata 960  
 aactttccag ggccccagcc tgatggggct gccctcagtc ctctagatca agatgctgac 1020  
 tattaggggg cagtgattgc catctgggga cctgtcaggc tttgtcattt cccagtttgt 1080  
 tgggtggtgcc tttagtgggt ccctaatttg ggaacactga tggggccttg gacagggctt 1140  
 tctctcaggt aggagaaatg ggcccatgat ctctcacag tcgccccag tccttgcccc 1200  
 tgcttccctg tgtctcatgc actggcacat atggtcacct tggagggcag acctaggagc 1260  
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 gaccccccaa agctgagggg ctgaatgtag ctttttcaac agagaaggct cccacttgag 1380  
 agcagcctct acctgacccc ctggaccaca gagagccact ctgacctca gccccctgc 1440  
 ttcttcagct aaaactccaa aggtttggtt tcagatgggg tttgttttgt tctgtttggt 1500  
 tttggttttg tttggggtgg gtgggtcatt gcggtcttag attatgtttc tcttgctacc 1560  
 aaacagtcac gtattaactc tctttggatg atgaagttaa aagagtcaat aaatagaaac 1620  
 accagatgac tgcaaaaaaa aaaaaaaaaa aaaaaaana aanaaaaaaa aaaaaanaaa 1680  
 aaaaaaaaaa 1690

<210> 114  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 114

```
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gccagctgac tgaggggtaca caggattggg tctagacctt gatgcctggg tggagggccc 120
ttgtaagggg ccatagcctc ttcaggacca actggagggg gagttaggaa acaccagctc 180
ctgcctgggg cagtgaggga atgggagcag ctgtgggcgc ctcatctcag gcaagtcctc 240
cccaaacctt cagatgcagt gagacctggc cttcctgttg tgcttttcag actttgtttt 300
cagaatgctt ttatctcgag tgtgcccttc ggccctcaca agagcccctg gggagtaggt 360
ggtggcctgt gccgtcatcc ccatttcaaa gcaggagct gaggtcctgg gaggggaaag 420
tgcttgccctg aggtcccact gtgttagtggt gtgggcagga ctggaactcg gttctccaac 480
agcccagagc tcaactctttt acaccagag gtggagcagg tggcttaggg ggtggttatg 540
tacttcacaa gccaattccc ttcagccagg agtcctggg tgcatttccg tgtcagaaac 600
agtaccgagt cccacccctt                                     620
```

&lt;210&gt; 115

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (392)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (412)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (511)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (521)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (535)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 115

```
tcgacccacg cgtccgcttc tcggccctt gtagaacctc tgtcaggttc agcctactcg 60
cctctactcc agcctccact ccggcctcca ccatgtccgt caggtgacct agaagtccta 120
caagggtgtc acctccggcc cccgggctt cagcagccgc tcctacacca gcgggcctgg 180
ctcccgcctc agctcgctcg cttctctccg ggtgggcggc asttccgggg gggcctgaac 240
agcagcatga gtgtggctcg gggctacggc ggcggggcgg gggatatggg ggcacacgg 300
ccgtctcagt gaaccagagc ctgctgagcc cccttwaagc tggaatkkgg tcccaacatc 360
```

```

caagctgtgc gcaacccagg agaaggagca gntcaagacc ttcaacaaca anttggcttc 420
gttcatcgac aagtgaagca ctggagcagc agaacaaatt ttggagacc aattggagct 480
tcttaaagca gcagaagacg cgcggagaac ntagacaaat ntgcgagagt aaatnagaac 540
tt 542

```

<210> 116

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<400> 116

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aattcaaccg tcgttatccc aaaattcagt ttctactttc caccggccct tccggcacta 60
tgctggatgg tgtactggag ggaaaactga atgcggcggt tattgatgga cccattaacc 120
atactgccat cgacgggata ccggtatacc gcgaggaact gatgatcgtc acgccacaag 180
gatatgcgcc agtaaccctg gccagtcagg ttaatggcag taacatttat gccttcccg 240
ccaattgttc gtatcgtcgc cacttcgaga gctggtttca tgctgacggg gccgctcccg 300
gaactatcca tgagatggag tcttatcacg gaatgttggc ctgtgtgatc gcaggagcag 360
gcattgcgct tattccgcgc tctatgctgg aaagtatgcc ggggcatcac cargttgaan 420
cgknggccgt tagctgagca atggcggtgg ttaacaacct ggctgggtctg gccgtcgtgg 480
tgcgaaaaaa cgttccgctc gaaggggggc ccggtancca attcg 525

```

<210> 117

<211> 728

<212> DNA

<213> Homo sapiens

<400> 117

```

aacgagcgcc tgctaggatc agcgggtggtg gttccgcgat ggtaggcggc ggcggggtcg 60
gcggcgccct cctggagaat gccaaacccc tcatctacca gcgctctggg gagcggcctg 120
tgacggcagg cgaggaggac gagcaggttc ccgacagcat cgacgcacgc gagatcttcg 180
atctgattcg ctccatcaat gacccggagc atccactgac gctagaggag ttgaacgtag 240
tagagcaggt gcgggttcag gttagcgacc ccgagagtac agtggctgtg gctttcacac 300
caaccattcc gactgcagc atggccaccc ttattgggtc gtccatcaag gtcaagcttc 360
tgcgctccct tcctcagcgt ttcaagatgg acgtgcacat tactccgggg acccatgcct 420
cagagcatgc agtgaacaag caacttgcaag ataaggagcg ggtggcagct gccctggaga 480
acaccacact cttggagggt gtgaatcagt gcctgtcagc ccgctcctga gcctggcctt 540

```

```

tgaccacctca gcctgcatac tggatctctg gtcccagctc ctgccagggc tgttaccgtt 600
gttttcttga atcactcaca atgagaaact aacattttgc tttttgtaat aaagttaatt 660
tatattcarw tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acccgggggg 720
gggcccccc                                     728

```

```

<210> 118
<211> 948
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (920)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (944)
<223> n equals a,t,g, or c

```

```

<400> 118
agaagtacgg acccctgaag cccctgccac agaccccgca cctggaggas gacttgaagg 60
aggtgctgcg ttctgaggct ggcacgaac tcatcatcga ggacgacac aggcccgaga 120
agcagaagag gaagcctggg ctgcggcgga gcccatcaag aaagtccgga agtctctggc 180
tcttgacatt gtggatgagg atgtgaagct gatgatgtcc aactgcccc agtctctatc 240
cttgccgaca actgccccct caaactcttc cagcctcacc ctgtcaggta tcaaagaaga 300
caacagcttg ctcaaccagg gcttcttgca ggccaagccc gagaaggcag cagtggcccc 360
gaagccccga agccacttca cgacacctgc cctatgtcc agtgcctgga agacggtggc 420
ctgcgggggg accagggacc agcttttcat gcaggagaaa gcccggcagc tcctggggccg 480
cctgaagccc agccacacat ctggaccct catcttgtcc tgagggtgtg aggggtgtcac 540
gagcccatc tcatgtttac aggggtgtg ggggcagagg ggggtctgtg atctgagagt 600
cattcaggtg acctcctgca gggagccttc tgccaccagc ccctccccag actctcaggt 660
ggagcaacag ggccatgtgc tgccctgttg ccgagcccag ctgtgggcgg ctctggtgc 720
taacaacaaa gttccacttc caggctctgc tgggtccctc cccaaggcca caggagagtc 780
cgtcagcttc tccaagccc acgtcaggcc tggcctcatc tcagaccctg cttaggatgg 840
gggatgtggc caggggtgct cctgtgctca ccctctcttg gtgcattttt ttggaagaat 900
aaaattgcct ctctctttgn aaaaaaaaaa aaaaaaaaaa gggnggcc 948

```

```

<210> 119
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (125)

```

<223> n equals a,t,g, or c

<400> 119

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tcgacccacg cggtcgcgtt ggtggggctg gctgctttct cgcgtttccc cccaaccccg 60
tccggcctcg cccagcggtt ccacgcggaa ccaactgcca gaggcgcggc gcggcgtcga 120
gcngngcgag tgtgaggaag ccgcccgcctc agccgagcgc gcgggcccgc ccagggcggt 180
agttttcggc gcgcagtcgc ggtcccccg c 211
```

<210> 120

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 120

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tcgacccacg cgtccggact gttctaagt agttcgggtg ggggagcttc acgaggggag 60
gctgctctgt gaaggaaccg cttttctctc cgcgtgtctc acccttttct ccccatatct 120
gtttggacat gagctgaggg cacggtcgcg ggcggtcagc ctgttcgcag ctacggcgag 180
gaggggcgcg attgytcctt gttgccgctc cgttagtggt ccgcgtccat tccgcgcggg 240
gtcccgattt taggggtagg gagaagtgtc agcttcaggc atcgcgaggc gtggcgggcc 300
catggccccg ctgggaggcg ccccgcggtt ggtactgctg ttcagcggca agaggaaatc 360
cggaaggac ttcgtgaccg aggcgctgca gagcagactt ggagctgatg tctgtgctgt 420
cctccggtct tctgtgccac tcaaggaaca gtatgctcag gagcatggct tgaacttcca 480
gagactcctg gacaccagca cctacaagga ggcctttcgg aaggacatga tccgctgggg 540
agaggagaaa cgccaggctg ccccaggctt cttttgcagg aagattgtgg agggcatctc 600
ccagcccatc tggctggtga gtgacacacg gagagtgtct gacatccagt ggtttcggga 660
ggcctatggg gccgtgacgc agacgggtccg cggtgtagcg ttggagcaga gccgacagca 720
gcggggctgg gtgttcacgc caggggtgga cgatgctgag tcagaatgtg gcctggacaa 780
cttcggggac tttgactggg tcatcgagaa ccatggagtt gaacagcgcc tggaggagca 840
gttgagaaac ctgatagaat ttatccgctc cagactttag tcactagggt ctaggagtga 900
gctggggcct gctgaggtgg ggggtgggct gactctgcaa aatgggggtg tccccgac 960
ctggccgagg tgaggaacag acaggggggg tctagattct gagggggttg gtggatattg 1020
ggcaaggcag gaaacctctg gagacctcat tttctccatg gggaagacag ccatgctctt 1080
caggaggaga cctcaagggc aaaggagggt gtcttggctg tgcttgaagg cgaaacctgt 1140
ccatatcccc agtgccagtc cctcagcct gtggtggcct tgcatcctga ctggatgttc 1200
tcagccccct gttctgggca agaaccaga gctccccagt gtggatacta ataaacctct 1260
tgagacacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagg 1308
```

<210> 121

<211> 2516

<212> DNA

<213> Homo sapiens

<400> 121

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gattgacatt ccagtgaat gatgggagtt aattgattta atttagatta gttgaaaatt 60
attacaaaat attctaaaag ggttttttgt ggtacttcaa gaaacctgat tagttttgat 120
ctattgaaat cacaaaagta gaacagggcw ytttattttt gtataattta ggattaggta 180
tgcttctttg ttctaacaag tcatgttttc taaccttctt ttcactaagc aaaccagaac 240
agatttgaac tgttatgggt tatatattag tatggagatc agctcagatg acattaaaaa 300
tgccgtagtg ttattcttgt atgccaaatc ttttttccc caaaattagc actttaattt 360
tatttactgt tataatattt gttttcttag attaggtagg aaatcttaat ttggccaccg 420
cctactttga caagtaaata ttacatcata cgattttgca acattaaatt agaacactag 480
```

```

aaactaaaaa attatgtttc agtgaatgct acaactaagc attttttttt ttttaagaaa 540
acaattgtat tatgttttgt tgccttgcca ctttgagtat cttatctgaa aatctgttcc 600
ttgccatgtt tttctcctgt taacataaac tatgtgccct gtgaatttct ggggactgaa 660
tttgaaattg ctcttgccaa ccgtttgtgg cctggcgtgt atctgaatgc ctgaatatct 720
ccccgctgaa tgaatttcgt attctgccct gaattcactc gggatatattg attggctgga 780
tgatcttggt gccgccact tgacgtttcc agaagagtca ccgaagaaaa gaaccaggag 840
tgtagaggat gatgaggagg gtcacctgat ctgtcagagt ggagacgtac taagtgaag 900
atgtatagaa ttttttcaa cacttattaa cttttcagat aacataatct atatatagat 960
taagctttca gggatttgga aatctttttt tctttctctt ttttgttttt gttttatttt 1020
tccatttctt ttggtggggg ggattgtatt tttgctttct ttagaaatgt aatgtttgtt 1080
atatagaact tccagaacag taatcaaatt aatgaaatta gacctataaa ttatgttttt 1140
tgatggtggt gaccaataaa atatctagtg ataaggaaat ttgtagcatc aactagaata 1200
atctacattg atagcattta ttgtgataag tacattgttt ccacttcttg atatgactga 1260
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tggtcacatt tgcattgttt ttgaactatt gggacttagt acttacgact tcattaaaga 1560
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aggggtggtc caacatgtg atgtctggag cataggatgc attcttattg aatactatct 1920
tggtgttacc gtatttccaa cacacgatag taaggagcat ttagcaatga tggaaaggat 1980
tcttggaact ctacaaaaac atatgataca gaaaaccagg aaacgtaaat attttcacca 2040
cgatcgatta gactgggatg aacacagttc tgccggcaga tatgtttcaa gacgctgtaa 2100
acctctgaag gaatttatgc tttctcaaga tgttgaacat gagcgtctct ttgacctcat 2160
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tcctttcttt gaccttctga agaaaagtat atagatctgt aattggacag ctctctcgaa 2280
ggatcttacc agactgtatc agtctaattt ttaaatttta agttattttg tacagctttg 2340
taaatcttta acatttttat attgccatgt ttattttgtt tgggtaattt ggttcattaa 2400
gtacatagct aaggtaatga acatcttttt cagtaattgt aaagtgattt attcagaata 2460
aattttttgt gcttatgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg aggggg 2516

```

<210> 122

<211> 1139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1125)

<223> n equals a,t,g, or c

<400> 122

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gtggcgacg ggggtgggagc ggacccaggc cgggagcagg cgccgccgcc agtgagaacc 60
ggggccggag ccgggtgcgg atttgctggg gctgagtcgg gggcgcgcg gccctgacct 120
ctgccctctg acctctcccc tagcaggcga ccatggggaa cgtgttggt gccagctcgc 180
cgcccgacag gccgccaccg ccgcctgcgc cgccctcgt ggggctgccg ccacctccgc 240
cctcgccgcc gggcttcacg ctgccgccgc tgggaggcag cctgggcgcc ggcaccagta 300
cgaktcgarg ttcggaacgg acccccgggg ctgcaaccgc cagcgctca ggggccgccg 360
aggatggggc ctgcggctgc ctgcccacc cgggcacatt cgaggagtgc caccggaagt 420
gcaaggagct gtttccatt cagatggagg gtgtcaagct cacagtcaac aaagggttga 480
gtaaccattt tcaggtcaac cacacagtag ccctcagcac aatcggggag tccaactacc 540
acttcggggg cacatatgtg gggacaaagc agctgagtc cacagaggcg ttccctgtac 600
tggtgggtga catggacaac agtggcagtc tcaacgctca ggtcattcac cagctggggc 660
ccggtctcag gtccaagatg gccatccaga ccagcagtc gaagtttgt aactggcagg 720
tggaacggga gtatcggggc tctgacttca cagcagccgt caccctgggg aaccagacg 780
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<210> 123

<211> 2114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1966)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2039)

<223> n equals a,t,g, or c

<400> 123

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gcgcgaccc aagcgtctg gagagcggcg ggctgctgca tgagattttc acgtcgccgc 180
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aggagactct gagtgactgg gagtctcagt tcactttcaa gtatcatcac gtgggcaaac 600
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tgctgaagga gggggaggag cccactgtgt actcagatga ggaagaacca aaagatgaga 660
gtgcccggaa aaatgattaa agcattcagt ggaagtatat ctatttttgt attttgcaaa 720
atcattttgta acagtccact ctgtctttaa aacatagtga ttacaatatt tagaaagttt 780
tgagcacttg ctataagttt ttttaattaac atcactagtg acactaataa aattaacttc 840
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aactacctac agag 2114

```

&lt;210&gt; 124

&lt;211&gt; 583

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 124

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gcccggccta ttcccttggg cttttaaaaa gcgtcttggg tggagggtgg gcagggtgctc 60
accaagcccc cagtaaccca agttgcatgt atccccaggg cacttttgtg attcccctgc 120
ttgtgactgc acaccgggac cccactcaat tcaaagaccc agactgcttc aaccctacca 180
acttcctgga caagggaag ttccagggca atgatgcttt catgcccttt gcctcagggtg 240
caggcagagg aggaagggga ccagcctgga ctggctctgg ggtacctggg gctcactgtg 300
cacctgtgta cccggcaaa gagatgtgcc tgggcacagg cctggcccac tcgggtatct 360
tcctattcct tacggccacc ttacagaggt tctgcctgct ccctgtggta cgccctggca 420
ccatcaacct cacctgcagt gcactggcct gggcagtgtc cccccagact tccagctcca 480
gccagtggcc tgctgaggtc aggtccact atggtgggct cactggccct caaacctcca 540
taccctccts ggtcaataaa ggccctaaat tgcaaaaaaa aaa 583

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&lt;210&gt; 125

&lt;211&gt; 1987

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (14)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (517)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1960)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 125

cagtacngtc cgantccccg gtcgaccac gcgtccgatg gcggcggagg aacctcagca 60  
 gcagaagcag gagccgctgg gcagcgactc cgaagtgtta actgtctggc ctatgatgaa 120  
 gccatcatgg ctcagcagga ccgaattcag caagagattg ctgtgcagaa ccctctgggtg 180  
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 caacacgttc atggacctga ttgagcaggt ggagaagcag acctctgtcg ccgacctgct 720  
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 catcattgag ctggcccagg ccctcagcgt gtccatccag gtggagtaca tggaccgcgg 960  
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 ctctgcattg cctgcctttt tgccttcacc tctttcttc cccgccccct gcacattcgg 1860  
 gktctcagcc ccaggtgtg gagctccttg gggcaggccc tcaataaatg tgaaactgct 1920

gctgcaaaaa aaaaaaaaaa aaaaaaaggg ggccgcttan agatcctcaa gggccaagta 1980  
cggtgat 1987

<210> 126

<211> 1451

<212> DNA

<213> Homo sapiens

<400> 126

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cgtccgtggg aattaaagct gcaaatggtg tggatttagc aactgagaaa aaacagaaat 180  
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tacttatttg tggttggaat gagggacgac catatttatt tcagtcagat ccactcggag 480  
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ccctaaagga aagctttgaa gggcaaatga cagaggataa catagaagtt ggaatctgca 660  
atgaagctgg atttagaggg cttactccaa ctgaagttaa ggattacttg gctgccatag 720  
cataacaatg aagtgactga aaaaatccaga atttcagata atctatctac ttaaactatg 780  
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ctccacaagt aggtaaacat gtttaaagga acccggttc ttagattttg ttagactttt 1380  
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aaaaaaaaa a 1451

<210> 127

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (857)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1226)

<223> n equals a,t,g, or c

<400> 127

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gtgtattttg tacacaggtt ttatgctggg ggctcagaga gaagtggaca gcagattgtt 180
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agagcatgga gctgtagctg tggagcagat gaccaagagc cctggagaga ccagtaaacc 300
gagaccattt gcaggagggtg gctaccgcct tggggcagca ccagagggaag agtctgccta 360
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gcccggccag ccatggnatgc caccagcttt atcctcatga ctactttccc gaacaaagag 900
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aacgtctcct ccatagctct gggttcttag atcttggttg gacgtttgtt ttctccttag 1140
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<210> 128

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 128

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ctccgagctg cagctgggtg agcagcggat ccgcagcttc cccgacttcc ccaccccagg 120
cgtggtattc agggacatct cgcccgtcct gaaggacccc gcctccttcc gcgcggccat 180
cggcctcctg gcgcgacacc tgaaggcgac ccacgggggc cgcacgcact acatcgacg 240
cctagactcc cgaggcttcc tctttggccc ctccctggcc caggagcttg gactgggctg 300
cgtgctcatc cgaagcgagg ggaagctgcc agggccact ctgtgggctt cctattccct 360
ggagtacggg aaggctgagc tggagattca gaaagacgcc ctggagccag gacagagggt 420
ggtcgtcgtg gatgatctgc tggccactgg tggaccatg aacgtgcct gtgagctgct 480
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cagtaccag gggcaccggc tgcccacagg gaacacatc ctttgcctgg gttcagcgcc 720
tctcctgggg ctggaagtgc caaagcctgg ggcaagctg tgttcagcc acactgaacc 780

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caattacaca cagcgggaga acgcagtaaa cagctttccc acaaaaaaaaa aaaaaaaaaan 840  
aaaaaaaaaa aaaaagggcg gcc 863

<210> 129

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 129

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ccctccctgc ccctgcccta gctgctgtgt gtacagttgc cttctttcta cctcagccgg 180  
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cccaggtact tgagttttgg aaaagctgac tcacgcccac ccattctaca gcccttccct 720  
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attctyawca agaagattta tgaggagaag aaaaagaa 1238

<210> 130

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 130

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gcagcraagg acccaggggc agagccacgc tggggatgga ccccttcgag gacacgctgc 180  
ggyggctgcg tgaggccttc aactgakggc gcacgcggcc ggccgagttc cgggctgcgc 240  
actccagggc ctgggccact tccttcaaga aaacaagcar cttctrcgm acgtgctggc 300  
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cgaggttgaa tangctctt 379

<210> 131

<211> 1786

<212> DNA

<213> Homo sapiens

<400> 131

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ccaaggcccc ctccccagtc tggccttgcc tccagcctgg agaagggcta acatcagctc 1680
attgtcaagg ccacccccac ccagaaacag aaccgtgtct ctgataaagg ttttgaagt 1740
aataaagttt taaaaactaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1786
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<210> 132

<211> 974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (853)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (963)

<223> n equals a,t,g, or c

<400> 132

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<210> 133

<211> 634

<212> DNA

<213> Homo sapiens

<400> 133

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cagtgccttt tccaggcctt aagagaagta aaacttagct gcagcgtcag gaggtggacc 180
ccagatgtgt agtggcacgc ttctctgtga acccgtcctc accatgtttg ccacatctgg 240
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ccagaccctc tacatctgca gtgagtgcgg acaaagcttc cgccacagcg gccgtcttga 480
cctacacttg ggcgacacac ggcagcgatg ccgcacttgc ccctgccgca cwtgcggccg 540
gcgcttcccg cacttcccgg cgctgctgct acaccggcgc cgccagcatc tgccagagcg 600
gccccgscgy tgcccgtgtg gcgycctcag gttt 634
```

<210> 134

<211> 1855

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1845)

<223> n equals a,t,g, or c

<400> 134

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cgcgcgcagg ccggcctctg tgtgtgcgcc acagcgagcc ggtgtgcggc agcgacgcca 180
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acaagcaccg ggtcaaagt gaagctgaaga acggtgccac ttacgaagcc aaaatcaagg 540
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```

<210> 135

<211> 917

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (913)

<223> n equals a,t,g, or c

<400> 135

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```

```

tggccgcca agttggggg cgagctcggg ggtgacgcgc ggcctcacg tgacccarag 120
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```

<210> 136

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 136

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atccgcgggc tggccaykc catccgcctg ctccctggaat acacagactc aagctaygag 180
gaaaagaagt acacgatggg ggacgctcct gattatgaca gaagccagtg gctgaatgaa 240
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atcacccaga gcaacgccat cctgcggtac attgcccga agcacaacct gtgcggggaa 360
tcagaaaagg agcagattcg cgaagacatt ttggagaacc agtttatgga cagccgtatg 420
cagctggcca aactctgcta tgaccagat tttgagaaac tgaaaccaga atacctgcag 480
gcactccctg aaatgctgaa gctctactca cagtttctgg ggaagcagcc atggtttctt 540
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ggcttgagaa agatctctgc ctacatgaag tccagccgct tcctcccaag acctgtgttc 720
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```

gctcctgcag catgggccct gccttaggcc tacctgatgg aagtaaagcc tcaaccacaa 1200  
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ggttttaaat t 1271

<210> 137

<211> 2017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 137

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aacaggagat tgctactcta gacaacaaga caatgactga tgtggtgggt aaccararga 180  
rgagcgccga gctgagttct acttcagacc ctgggkcagg aggtgtgtg ccratacttc 240  
tactccaagg tgcagcagag acgacaagaa ttagagcaag ccctgggaat ccggnataca 300  
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<210> 138

<211> 937

<212> DNA

<213> Homo sapiens

<400> 138

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```

<210> 139

<211> 2759

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2743)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2746)

<223> n equals a,t,g, or c

&lt;400&gt; 139

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&lt;210&gt; 140

&lt;211&gt; 1241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (317)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 140

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 1241
```

&lt;210&gt; 141

&lt;211&gt; 3405

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1569)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 141

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ccttggtggg agcagcaggg cttcttcaag ccagagtatg ggcgtcctaa tgtgtcagca 480
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```

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&lt;210&gt; 142

&lt;211&gt; 2268

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2232)

<223> n equals a,t,g, or c

<400> 142

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tgtagcaaaa agttgattag cttaccaaga ttattaatag caatgtatgt gttataatac 2160
aacttagtna cattaaagcc tacgaaaact catcnggct gtaggatagt aataaaggaa 2220
gaattatgac tncattatga aaaaaagaag ttttaaagtt ttcaatac 2268

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<210> 143

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 143

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aaaaaaaaaa aaaaatt 1757

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<210> 144

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<400> 144

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gaggggggag gaaagaagaa agggggcgag gttgagggg gcgggcctgg acctggggag 180
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gactcatgta atggattacc gggccttggg gcatgagcga gatgaggcag cctatgggga 840
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cagcaacctg gagaaaattg tcaacccaaa ggggtgaagaa aagccatcta tgtactgaac 960
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aa 1062
```

<210> 145

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 145

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111

aaaaaaaaa

1030

&lt;210&gt; 146

&lt;211&gt; 814

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

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&lt;210&gt; 147

&lt;211&gt; 2678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

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&lt;210&gt; 148

&lt;211&gt; 1028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

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ctgcctcagc ctcccagta gctgggatta caggcacaca ccaccacgcc cggttaattt 60
tttggtgtct tttagtagag acgggggttc gctatgttgg ccagactggt cttgaactgc 120
tgacctcgtg atccgccgcg ctcggcctct caaagtgtg ggattctgtg tgttttgtgc 180
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gacatctttc attggatttt ggaaaattgt tcccatggg attctaacct cactacaaa 480
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taagtgtcaa tgtagcatgt aaaaggcttt gtacagacag gtaaaagttc catttctgag 780
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tcaataattt aaatgtaact agttgggatt ttatagttaa aattatattt gtgtatataa 960
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ttggttca 1028

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&lt;210&gt; 149

&lt;211&gt; 1425

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (647)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1359)  
<223> n equals a,t,g, or c

<400> 149  
gcgtctccgg aagtggaggc gggagcggca cggcagccac tgcttggggt agcgggaggg 60  
cagactcttg gcgccactcc cgggccggtc atgaacgggc cggcggacgg cgaagtggac 120  
tacaaaaaaa aataccggaa tctgaagcgg aagctcaagt tcctcatcta cgagcacgag 180  
tgcttccagg aggagctgag gaaagcgcaa aggaaattac tgaaggtgtc ccgggacaag 240  
agtttcctcc tagaccgact tctgcagtac gagaacgtgg atgaagactc ttcggactca 300  
gatgccactg catcatcaga taacagcgag acggagggga caccacaagt gtctgacaca 360  
ccggccctta agaggaagag aagccctccg ctggggggcg cccctctccc ctccagcctc 420  
tcctcgcttc cttcaacagg gtttccctt caggcctccg gggctccctc ccataacctg 480  
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aagatggcgg tgggaccccc cgaytgccct gtgggagggc cgctganctt ccctggccgg 660  
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cccacgatcc tgagcacggg ccctcggcag atgttcagcg atgcaggtag cggggacgat 780  
gccttggatg gagacgatga cctgggtgac gacatcccgg agtgaccgtg acatcacgcc 840  
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tcggaggtgt ttattgatgc ccagctgcca tgctccggcc actgacacaa ccagaaaagg 960  
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cattctcctc ctctgaacct cccctaatac gacctcctcc ctgttggggg agagggacgg 1260  
ggcagcgtgg agaggcagga gtgaggagcg cgggggcctg gggccgggct ctgagcactg 1320  
cccgggtgtg cagatgatgg ggggtttgca tatttgcang ggactagcga gtcaggcagg 1380  
aggtttgcac atgtgaatat agaactccgc agccctcat gagca 1425

<210> 150  
<211> 780  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (285)  
<223> n equals a,t,g, or c

<400> 150  
gctgcgagaa gacgacagaa ggggagagcc aatggaaagg ggctgccgcg cggccgtaaa 60

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ccgcaacgac gaggagttaa acaagctgct gggcaaaagt accatcgctc agggcggcgt 480
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caaatgaccc tgacgccgcc ctcagggagc tggctccscg agcaaaggcc cttttcatgg 600
tcgtcccga atgcttttga atgtgctgga tgtcatggag ggccggtgac atctagcggg 660
gaggtgggcg gcgaggggtcc cggcgggagc caataaagtt ggtgaaaatc gtaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
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<210> 151

<211> 1066

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 151

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gtgcgcgccc tgcgggagca actgaacagg ccgcgcgact cccagctcta cgcggtggac 120
tacgagacct tgacgcggcc gttctctgga cgcggctgc cggctccggc ctgggcccac 180
gtgcgcgcg agagccgcct cttgcagctg ctcggccgcc tcccgctctt cggcctgggc 240
cgctggtca cgcgcaagtc ctggctgtgg cagcacgacg agccgtgcta ctggcgccctc 300
acgcgggtgc ggcccgaact caccgacgag aacttgacc acgggaaggc ctggggcatc 360
ctgaccttca aagacgcctc tttttcttca tcagggaaga ctgagagcga aggcgcggga 420
gatcgaacac gtcattgtacc atgactggcg gctggtgccc aagcacgag aggagcctt 480
caccgcgttc acgcggcgcc cggaagacag cctggcctcc gtgcccgtacc cgcctctcct 540
ccgggccatg attatcgag aacgacagaa aaatggagac acaagcaccg aggagcccat 600
gctgaatgtg cagaggatac gcatggaacc ctgggattac cctgcaaaac aggaagacaa 660
aggaagggcc aagggcaccc ccgtctagaa tgccagaacc agcgggtggc cttaggggct 720
gtgaggcagt ggggacctta ttgatgaaag aaaccgtctt tgcgttacac ccgagctctg 780
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tccgagggcc cagctgggg aaagcgggaa gcgctcgctc cttttcccc attagtctc 960
tctctgcctg gatcccgga gaagctatga aagggaataa agagaaaaga artamaaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nccctt 1066
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<210> 152

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<400> 152

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accccggtc tccaaggagg tgtgacatca tcatcatctc tggccggaaa gaaaagtgtg 60
aggctgcca ggaagctctg gaggcattgg ttctgtcac cattgaagta gaggtgccct 120
ttgaccttca ccgttacgtt attgggcaga aaggaaagtgg gatccgcaag atgatggatg 180
agtttgaggt gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca 240
cgggcctcgc tgcaaatttg gaccgggcca aggctggact gctggagcgt gtgaaggagc 300
tacaggccga gcaggaggac cgggctttta ggagtttta gctgagtgtc actgtagacc 360
ccaaatacca tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttg 420
agcatgacgt gaacatccag ttctctgata aggacgatgg gaaccagccc caggaccaa 480
ttaccatcac aggttacgaa aagaacacag aagctgccag ggatgctata ctgagaattg 540
tgggtgaact tgagcagatg gtttctgagg acgtcccgtc ggaccaccgc gttcacgccc 600
gcatcattgg tgcccgcggc aaagccattc gcaaaatcat ggacgaattc aaggtggaca 660
ttcgcttccc acagagcgga gccccagacc ccaactgcgt cactgtgacg gggctcccag 720
agaatgtgga ggaagccatc gaccacatcc tcaatctgga ggaggaatac ctagtgtacg 780
tggtggacag tgaggcgtg caggtataca tgaaaccccc agcacacgaa gaggccaagg 840
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gaagacctgg caatggacag caggaggcag gttcctggag ctnggggggtg acctgagag 1560
cagaggggtga cgggttctna ggcagtcctg attttacctg ccgtgggggtc tgaaarcacc 1620
aagggtccct gacctacct ccaactgcca 1649
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<210> 153

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 153

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ccggaaattc ccgggtcgac ccacgcgkcc gcggnagwgc tcacacgtgt gctccctgcc 60
ctgctcctgg ccccttgccc ggccgggtg tttctggcca tgggtcgctc ccgccggaca 120
ggcgcgcacc gagcgcactc tctagcccgg catatgaagg cgaacggcgg cgcccgact 180
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116

tgatgagat tcaccgcgag ctgcggcctc agggatccgc acgacccag cccgacccaa 240  
acgccgagtt cgaccccgac ctgccagggg gcggtctgca ccgtgtctg gcctgcgcga 300  
ggtagctcat cgattccacc aacctgaaga cccacttccg atccaaagac cacaagaaaa 360  
ggctgaagca gctgagcgtc gagccctaca gtcaggaaga ggcggagagg gcagcgggta 420  
tgggataccta tgtgcccccc aggcggcttg cagtgcacc ggaagtgtcc actgagggtcc 480  
ctgagatgga tacctctacc tgacatggcc tgaagatgca gggcagagga attgcccattg 540  
gacagtgcg caaggactag gctgggaggg agcgtgccaa ccccttttgc ctctgggttt 600  
ggggagcggg ggcctcttc ttggtgccct gccccecaata aaggaactgg acaaagagaa 660

&lt;210&gt; 154

&lt;211&gt; 605

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (449)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (574)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (578)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (583)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (587)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (596)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 154

ggcagagctc caccttccat ccggcgccgg ctttcggcgc gacggtcgcc gcgttccatc 60  
gtcgcgcggc ctttcggggc cccgagcccg caatgtcggg ccccaacgga gacctgggga 120  
tgccgggtgga ggcgggagcg gaaggcgagg aggcgggctt cggggaagca gaatacgtg 180  
ccatcaactc catgctggac cagatcaact cctgtctgga ccacctggag gagaagaatg 240  
accacctcca cgccgcctc caggagctgc tggagtccaa ccggcagaca cgcctggagt 300  
tccagcagca gtcgggggag gccccagtg atgccagccc ctaggctcca agagcccca 360

accgggaccc aaccctgcct ccctgggcta ggctctggcc tgggcactca mcccctggct 420  
tagacamctt ctcaagggt ggccttcang gaccctgggt gggctctgcct gcctgggcca 480  
accttcctgc ctgggsctyc ccttggtam ctgggscagc cccaccaac tggcatgccc 540  
tcctgggggc caaagaatgg ggctgcaac ccancantt gcntgcncaa cccaanttc 600  
tgggg 605

<210> 155

<211> 695

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<400> 155

gaaccctaga aaaaaggatg cagtactaaa gtgtcattca ttcaaagcca ctctctttt 60  
ggtattccac ccattttcca gacggtgaca ctgaggctca ggaagcagta gggacttgca 120  
caaagccctt tgggaagcag gctgggaaac agtggaggga ggggtgccat tanccccaag 180  
gagacacagg atctgggctc tktytttsgc ctctctcca gaatacgtg ccatcaactc 240  
catgtggac cagatcaact cctgtytgga ccacctggag gagaagaatg accacctcca 300  
cgcccgctc caggagctgc tggagtccaa ccggcagaca cgctggagt tccagcagca 360  
gctcggggag gccccagtg atgccagccc ctaggctcca agagcccca accgggaccc 420  
aaccctgcct ccctgggcta ggctctggcc tgggcactca ccccctggct tagacacctt 480  
ctcaagggtt ggccttcang gaccctgggt gggctctgcct gcytgggcca cccttctgc 540  
ctgggrcctc cccttgkcc tactggggcc agcccccacc acctggcatg ccctctggg 600  
gccaaagatg ggctgcaam ccaccattg scgccaac caattcctgg gcgytcccca 660  
wtytgcccag gcttgaatgt tcacatgaaa tgggt 695

<210> 156

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 156

cggtgggctc gcgttgaggc tgcggtcagt gagggagcag gagctggatc cggttccgg 60  
aaggagctgg tgagcaggct gctgcacctg cacttcaagg atgacaagac caaagtgagc 120  
gggagcgcgc tgcagctcat ggtggagtgt ctgaaggtct tcgttggtga agcagcagtc 180  
cgcgcgctgc ggcaggccca ggcagaagac gcgtccgtg tggacgtgga ccagctggag 240  
aaggtgcttc gcagctgctc tggacttcta gggatctcag ccgtggckna ggccaccccc 300

agaggagccc ctggtccaca gaagcaggcc ttgtgtttcc agcggcctct gataagaggc 360  
aggggaaggam ctgaaggatt tggarttgat tcaaacaaga tctctgggag tctccagcct 420  
gtgcagaagg ggcaggactg cagtgcactg cgggccttgg agtgtccagt ggggacactg 480  
gtgtgggaag gggcagcacc tggggagtcc ctgcctctcc tccctgggac aatagtgtgc 540  
atgccacccg gggtcctaca ggcagggtgct gggaaaggcc tggccagcag gtagcctgtg 600  
tgtttgacaa acagcagctg gcagcgctgc ctccctgcca cattcctgcc acccgacatc 660  
aaagctggcg tgtgaccttt ccagccatgc gatattcccc ttggaagatg cttccccagg 720  
ctataaattt gttctcacia agcaacatca ataatcaaa actgtctcty ccaaaaaaaaa 780

<210> 157

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1113)

<223> n equals a,t,g, or c

<400> 157

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tgatggagaa attaaatatt ttccattatg ctttacaaaa tactgtatat gtttcagcaa 120  
gtttggggaa tgggagagga caaaaaaaaa ttacatttaa tctatgcatt ttgccaagc 180  
catattgagt tattttacta ctagagacat taggaaacta actgtacaaa agaaccaagt 240  
ttaaaagcat ttgtgtgggt acatcatttc tataattgta taatgtattt ctttgtggtt 300  
ttaaatgata aagacattaa gttaacaaac atataagaaa tgatgcactg gtttgaaatg 360  
taaattattc ttagaacact ttcaatgggg gttgcattgt ccttttagtg ccttaatttg 420  
agataaattt ttactgcca tgagtaagta tagaaatttc aaaaaatgta ttttcaaaaa 480  
attatgtgtg tcagtgaagt ttccattgat aattggttta atttaaaata tttagagggt 540  
tgttggactt tcataaattg agtacaatct ttgcatcaaa ctacctgcta caataatgac 600  
tttataaaac tgcaaaaaat gtagaagggt gcaccaacat aaaaaggaaa tatggcaata 660  
catccatgat gttttccagt taacatagga attaccagat aaatactgtt aaactcttgt 720  
ccagtaacaa gagttgattc atatggacag tatgatattt tgtttatttt ttaacccaa 780  
tacctctca gtaatttata atggctttgc agtaatgtgt atcagataag aagcactgga 840  
aaaccgatcg tctctaggat gatatgcattg tttcaagtgg tattgaaagc cgcactgatg 900  
gatatgtaat aataaacata tctgttatta atataactaat gactctgtgc tcatttaatg 960  
agaaataaaa gtaatttatg gatgggtatc ttttaatttt actgcaatgt gttttctcat 1020  
ggctgaaatg aatggaaaac atacttyaat tagtctctga ttgtatataa atgtttgtga 1080  
aattccatgg ttagattaaa gtgtrttggg aanaattctc catgggg 1127

<210> 158

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (205)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (207)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (236)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (732)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1279)  
<223> n equals a,t,g, or c

<400> 158  
tgctctacaa atagtaaaaa taaaaaataa aaaaagtagc tgggcgtggt ggtgtgcacc 60  
tgtggtccca gctgcttggg atgctgaggt ggaaggatct cttaaaccca ggaggggtggn 120  
aggctgcagt gaacttgcca ttgcaccact ggcactccag tctgggggac agagtgcagac 180  
cccactctcaa aaaagtgttt aattnantat acttgtgagt ggtctatttg catttnaaaa 240  
ctgctttcta gaattaggat agctccctta ggtttaatgt tttggtgagc aggaatatca 300  
gttaccocctc cagatcttaa ttctagtttt tttatcactt tttcatgagg tgatctcatc 360  
ctcatctcct agcatgtctg gcaattttga tttctgaact ctgtgctacc tcagaggcca 420  
gcttccttag ggaaaaatca gtgctgaaat aaagttatat ttccttttct gctctaaata 480  
tatagtgggg gaataagaga aatgaagagg aattcctgag aacgtaatta ctagaaactc 540  
ccctctccca cgtaatgtct ctcacacacc atggaccctt attcccccaa tttgcgaccc 600  
cccacccac cccacaacag gtggtgatct ttgtgaagtc tgtgcagcgg tgcattgcct 660  
tggcccagct actagtggag cagaacttcc cagccattgc catccaccgt gggatgcccc 720  
aggaggagag gntttaaaga ttttcaacga cgaattcttg tggctaccaa cctatttggc 780  
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gtcaatatta gtgagctgcc tgatgagata gacatctcct cctacattga acagacacgg 1020  
tagaagactc gccatttttg gaatgtgacc gtctgtcctt caggagagga caccaggggtg 1080  
ggggtgaagg agacactact gccccaccc ctgacagccc ccaccccatg gcttccatct 1140  
tttgcatcac caccactcct gaaccccat ttctgatttg tcagaatttt tttttaacaa 1200  
aactaaaaat gaaacacatg tgtctgtggt atctaaaaaa aaaaaaaaaa aaawwggggg 1260  
gsggcccgta cccattgnc ct 1282

<210> 159  
<211> 1505  
<212> DNA

<213> Homo sapiens

<400> 159

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ttacatgttg cagaagctaa ttgaagagac agataggttt gtagtggttca cagaagagga 60
atcaggcatg agtgaccagt tgtgtggcat tgctgcctgc cagacggatg acatatacaa 120
ccgaaactgc cttattgaat tggtaacct gtcagatggg tcttcgtgga gcagagacac 180
aaggctgtgt catttgttca gctgccaaag cccaactgct gcagtgccag caccatccag 240
cctggtatgg tgatacattg aagcaaaaga catcctggac ttgcctcttg gatggcatgc 300
agtactttgc caccactgaa agcagcccca cagagcagga tggccgacag ctctggttag 360
aggtgaagaa tatcgaggag caccggcagc gtagtctgga ctctgtgcag gagctgatgg 420
agagtgggca ggcagtgggc ggcattggtta ccacaaccac agattggaac cagccagctg 480
aggcacagca agcccagcaa gtccagcggg tcatctcgcg ttgcaactgc cgaatgtact 540
atattagtta cagccatgac attgatcctg aactagcaac tcagattaag ccacctgaag 600
ttcttgagaa ccaggaaaag gaagatctcc taaagaagca ggaaggggct gtggatacct 660
tcacccttat ccaccatgag ctggaaatct ccaccaaccc agctcagtat gccatgatcc 720
tggaacttgt caacaacctg ctgctccatg tagaacctaa gcggaaggaa catagtgaga 780
agaagcaacg ggtcagggtc cagcttgaga tctctagcaa tccagaggag caacgcagca 840
gcatactgca tttgcaggag gctgtgcggc agcatgtggc ccaaatacga cagctggaga 900
agcagatgta ttctatcatg aagtctttgc aggatgacag caagaatgag aatctgcttg 960
acctgaacca gaagcttcag ttgcagctaa accaggagaa ggccaacctg cagctggaaa 1020
gtgaagaact gaatatcctc atcaggtgtt ttaaggattt ccaactgcag cgggctaaca 1080
agatggagct gcgaaagcac aagaagatgt gagtgtggtc cgtgcactg agttttactt 1140
tgctcaggca cgggtggcgc tgacagagga agatggacag ctgggaattg ctgaattaga 1200
actgcagagg ttctcttaca gcaaggtgaa taagtctgat gacacagcag aacatcttct 1260
ggagttgggc tggtttacc aagaacaacct cctccccaat gctgtctata aggtagtact 1320
gcggccccag agctcctgcc agtctgggag acagctagct ctccgcctct tcagcaaagt 1380
tcggccccct gttgggggta tctctgttaa ggagcatttt gaggtaaatg tgggtgctctc 1440
accatccagc tgacacacca ttctccaca gatgatgggc ttttctttcc tggccgaagt 1500
gtgga 1505
```

<210> 160

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<400> 160

```
aggcacgagg gacacttggg gtctggacgc aacggcggcg ggagcatgaa cggccctcca 60
gccttcgagt cgttcttgct cttcgagggc gagaagatca ccattaacaa ggacaccaag 120
gtacccaatg cctgtttatt caccatcaac aaagaagacc acacactggg aaacatcatt 180
aaatcacgtg cctgcttccc ttctgccttc tgccgtgatt gtcagtttcc tgaggcctcc 240
ccagccacgc ttctgttaca gcctgcagaa ctgtgagtca attaacctc ttttcttcat 300
```

```

aaattaccca gtttctcata gttctttata gcagtgtgaa aacagactaa tggacccttc 360
tggttgaagg aatgcagcca ttctgcttgt ttgactatgt cctttctatt catctctatt 420
tcctgggagg tgtttatcca agtgcaatag gaggtattgg tgaccgcaca gtcccctcag 480
tgttctgcta gtaaatagtt gaagggtgat cattgatctt ctgcgttttc agtctggcat 540
ggaaaagccc ctgtgcaact ggtaaagata tcaataagca cctgggtgggt ggcgggggta 600
gtccaggctt gtcttgcaac tgtatgttct cttcagaccc ctccctggcg atgccagatt 660
cactgggctg gcagattctg cccccccaa aaaaaaaaaa aaaatattaa taataaanaa 720
aanagactcc caggga 736

```

<210> 161

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 161

```

gggtcgaccc acgcgtccgg gcggcctcgg cagcgggtgtt ctgcgcttg cgaasgggnc 60

```

```

tccggctcgg ctccggggga ctgtgcacga ggttggcgac gcgccccgcc gggccccaga 120
tcaggccgca gagatcggga gccgcgggag cactaaggcg caagggccac agcagcagcc 180
gggctcagag ggtcccagct atgccaaaaa agttgcgctc tggcttgctg ggctgcttgg 240
agctggtggg actgtgagcg tcgtctatat ctttggaac aaccgggtgg acgaaaatgg 300
tgccaagatt cctgatgagt tcgacaatga tccaattctg gtacagcagt tgcgcgggac 360
atacaaatat ttcaaagatt atagacagat gatcatcgag cccaccagcc cttgccttct 420
cccagaccct ctgcaggaac cgtactacca gccaccctac acgctcgttt tggagctcac 480
cggcgctctc ttgcatcctg agtggctcgt ggccactggc tggaggttta agaagcgccc 540
aggcatcgag accttggtcc agcagcttgc ccctttatat gaaattgtca tctttacgtc 600
agagactggc atgactgctt ttccactcat tgatagtgtg gacccccatg gcttcatctc 660
ctaccgccta ttccgggacg ccacaagata catggatgga caccatgtaa aggatatttc 720
atgtctgaat cgggacccag ctcgagtagt agttgtggac tgcaagaagg aagccttccg 780
cctgcagccc tataacggcg ttgccctgcg gccctgggac ggcaactctg atgaccgggt 840
cttgttggat ctgtctgcct tctcaagac cattgcactg aatggtgtng gaggacgtng 900
cgaaccgtgc tgggagcatt atgccctngg ganggatnga ccccgctggg cggcttttgc 960
aaacagcggc aaancgggct tagaagcagg gagga 995

```

<210> 162

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1023)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 162

```

gccctagtag ggtccggaat tcccgggtcg acccacgcgt ccgcccacgc gtccgcgctg 60
gtgttgccgc gctggcgaca gtcggggttg cgagcgcccc ggggccgggg cggccagggc 120
cgctgcagga cgagaccctg ggtgtggcgt ccgtgccctc gcagtggagg gccgtccagg 180
gcatccgcgg ggagacgaaa agttgccaga cggccagcat tgccactgcc agtgcacccg 240
cccaggccag gaatcatgtg gacgcccagg tgacagcggg ggccccctg cctgtcagcg 300
tgacgcccc gtcccagtay gacataccca ggctcgcagc ctttcttcgg agagtggagg 360
ccatggtcat ccgagagctg aacaagaatt ggacagagcca cgcgtttgat ggcttcgagg 420
tgaactggac cgagcagcag cagatggtgt cttgtctgta taccctgggc taccgcccag 480
cccaagcgca gggctctgcat gtgaccagca tctcctggaa ctccactggc tctgtggtgg 540
cctgtgccta cggccggctg gaccatgggg actggagcac gcttaagtcc ttcgtgtgtg 600
cctggaacct ggaccggcga gacctgcgtc cccagcaacc gtcggccgtg gtggagggtc 660
ccagcgctgt cctgtgtctg gccttcacc ccacgcagcc ctcccamgtc gcaggagggc 720
tgtacagtgg tgaggtgttg gtgtgggacc tgagccgtct tgaggacctg ctgctgtggc 780

```

```

gcacaggcct gacggatgac acccacacag accctgtgtc ccagggtggtg tggctgcccc 840
agcctgggca cagccamcgg ttycagggtgc tkagtgtggc cacygacggg aaggtgctac 900
tctggcargg catcggggta rgccagctgc agttcacaga rggcttcgcc tggttcatkc 960
agcagctgcc anggagcacc aagctcaaga agcatccccg cgggagaccg aggtgggcgc 1020
canggcaggc tttcttccag ttgacctca ggttttcatt ttggcaggaa gcggttnccg 1080
ttcaattttc ctggcattgg agagcagcct taaggggtgc ccatt 1125

```

<210> 163

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<400> 163

```

gggtcgaccc acgcgtccga gatggcggtt cgcagcaaga ggccggagca cggcggggccc 60
ccggagctgt tttatgacaa gaatgaagcc cggaaatacg tgcgcaactc acggatgatt 120
gatgtccaga ccaaaatggc tgggagctgt ttggagctcc tttgtctgcc ggaggtcagc 180
cctgttacct cttggatatt ggctgtggtt ctgggctgag tggagattat ctctcgatg 240
aagggcacta ctgggtaggc atcgacatca gccctgccat gctggatgcg gccttggacc 300
gagacactga gggagacctg cttctggggg acatgggcca gggcatcccc ttcaaaccag 360
kttcattgat ggatgtatca gcattctgcn aatcagtggc tctgtaatgc aaaccaagaa 420
gtc 423

```

<210> 164

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<400> 164

```

acccacgcgt ccggcggtcg gcggagcaga acggattgca gggtcagcca tgtcatctga 60
gcctcccca ccaccacagc cccccacca tcaagcttca gtcgggctgc tggacacccc 120
tcggagccgt gagcgctcac catccctctc gcgsggcaac gtggtcccaa gccactgcc 180
cactcgcccg acgaggacct tctcggcgac ggtgcgggct tcacagggcc ccgtctacaa 240
aggagtctgc aaatgcttct gccggtccaa gggccatggc ttcattaccc cagctgatgg 300
cggccccgac atcttcctgc acatctctga tgtggaaggg gagtatgtcc cagtggagg 360
cgacgaggtc acctataaaa tgtgtcccat cccacccaag aatgagaagc tgcaggccgt 420
ggaggtcgtc atcactcacc tggcaccagg caccaagcat gagacctggt ctggacatgt 480
catcagctcc taggagatgg tggaagcacc ccttgcctcg tgcctgtggg agactttgcg 540
gggaggaggc agcagacact ggagatgaca ttcttcaca cgagacgggg cttcagcccg 600
gcatggtccc tctcaagtat ctcttgagg aaggggtatg gggggcaggt gtggggtgtg 660
gggtgttccc ggccatcagc acagcctatg accattgcaa caacctctca ccatctgaag 720
agcattaaaa gcatttaaaa aggaragggtg cccactggtg gctgagtgga ggttccaacc 780

```

```

ccatcccagg gagtggatca aggggtggtat ttctccagct gctcagacac atgggctcaa 840
cccacagaat ccctcttcct cctggagctg gagggcccag attcccagat ctggccccct 900
ggcagcctga cagggacett gcgtgacttc tccaaggcaa atttccacct aagtgccctt 960
tgcgcctctc ctggggcctg ggcaaagcag ttttctaatt cttggtcttg ttggttctag 1020
gggagctggc ttgaagtggg kggggaaagg cgggggtggc ggtcttttga ttggacggat 1080
gttgccctttt ggtgcctttg cagtgggagg cggcatagct gcctgtcttg ggaagacagt 1140
tctcccagca ctcccacccc tgggcacagc aggcctgtac tgggaggctg aaccttctt 1200
agagcctgac cttttcatct gccttctggt tgtgtgacca tcaactcaaca gccatttcac 1260
agccccctgta attatggcgg cggggggctg ggggtggtgg ggtgggaagg gcttgtggag 1320
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gcacccctgac agcctggcaa agtcaagaaa gttgaaggag aaacatacct ttggagaggg 1440
ggttttcttt aaaactagt ttaagaaatg cttaggaggatt ttttttttct tatttttcat 1500
aactaaagct ttcaccacga gccggctctg ttgacacttt gctgccgaca ttgcaaacct 1560
tttggcaggg tgggagactg agtctcatc tgtcamccag gctggagtg agtngcccga 1620
tctcagcttt actgcaacct ct 1642

```

<210> 165

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 165

```

aggaaatgccg agtactgcag gggctcccca gggagtatgt gaatgccagg cactgtttgc 60
cgtgccaccc tgagtgtcag ccccagaatg gctcagtac ctgttttga ccggaggctg 120
accagtgtgt ggctgtgcc catcaagtgg atggcgctgg agtccattct ccgccggcgg 180
ttcaccaccc agagtgtat gtggagttat ggtgtgactg tktgggagct gatgactttt 240
ggggccaaac cttacgatgg gatccagacc cgggaggatc cctgacctgc tggaaaaggg 300
ggagcggctg cccagcccc ccatctgcac cattgatgtc tacatgatca tgggtcaaag 360
ttggatgatt gactctgaat gtcggccaan attncgggag ttggtgtktg aattctcccg 420
catggccagg gacccccagc gctttgtggt catccagaat gaggacttgg gccagaccag 480
tcccttgac agcaccttct accgctcact gctggaggac gatgacatgg gggacctggt 540
ggatgctgag gagtatctgg taccacagca gggcttcttc tgtccagacc ctgccccggg 600
cgctgggggc atggtccacc acaggcaccg cagctcatct accaggagtg gcggtgggga 660
cctgacacta gggctggagc cykctgaaag aggaggcccc caggtctcca ctggcaccct 720
ccgaagggct ggctccgatg tattttragg tgacctgga atgggggcag ccaaggggct 780
gcaaagcctc cccacacatg accccagccc tctacagcgg tacagttagg accccacagt 840
acccctgccc tctragactg atggctacgt tgccccctg acctgcagcc cccagcctga 900
atatgtgaac cagccagatg ttcggcccca gcccccttcg ccccgagagg gccctctgcc 960
tgctgcccga cctgctggtg ccactctgga aaggscgaag actctctccc cagggaagaa 1020
tggggtcgtc aaagagtttt tgcccttggg ggtgcgctgg agaaccgccg gtattgacac 1080
cccaggggag ggagcttgcc cttcagcccc acctt 1115

```

<210> 166  
<211> 1066  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (739)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (968)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1023)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1025)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1042)  
<223> n equals a,t,g, or c

<400> 166  
gggcacgagn cacctgagcc ccttgtctcg caccggctcc caggagggca cctccatgga 60  
gggctccgcg cccgctgccc ctgccagagc caggcaccct caagaccagt ctggtggcta 120  
ctccaggcat tgacaagctg accgagaagt cccaggtgtc agaggatggc accttgcggt 180  
ccctggaacc tgagccccag cagagcttgg aggatggcag cccggctaag ggggagccca 240  
gccaggcatg gagggagcag cggcgaccgt ccacctcatc agccagtggg cagtggagcc 300  
caacgccaga gtgggtcctc tcctggaagt cgaagctgcc gctgcagacc atcatgagc 360  
tgctgcaggt gctggttccg cagtggagaa gatctgcatc gacaagggcc tgacggatga 420  
gtctgagatc ctgcggttcc tgcagcatgg caccctggtg gggctgctgc ccgtgcccc 480  
ccccatcctc atccgcaagt accaggccaa ctcgggcact gccatgtggt tccgcaccta 540  
catgtggggc gtcattatc tgaggaatgt ggacccccct gtctggtacg acaccgacgt 600  
gaagctgttt gagatacagc ggggtgtgag atgaagccga cgaggggctc agtctagggg 660  
aaggcagggc cttggtccct gaggttccc ccattccacca ttctgagctt taaattacca 720  
cgatcagggc ctggaacang cagagtggcc ctgagtgtca tgccctagag acccctgtgg 780  
ccaggacaat gtgaactggc tcagatcccc ctcaaccctc aggctggact cacaggagcc 840

```

ccatctctg ggctatgcc caccagagac cactgcccc aacactcgga ctccctcttt 900
aagacctggg ytcagtgtg gcccctcagt gccaccact cctgtgctac ccagccccca 960
gaggcagnaa rccaatgggt cactgttgcc cctaaagggg gggttttgaa ccaaggggga 1020
aancnacggg gcctggttcc cntttggaaa ggtttccctt gggaaa 1066

```

<210> 167

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 167

```

gtcgcgagcg ctgccgtcgg gaggcgctcc gaggttcgag gctgtgcccc gcgaccccg 60
cttcggcgct cggtcgcag gatggatccc gtaccggga cagaetcggc gccgctggct 120
ggcctggcct ggctgcggc ctctgcaccc ccgcccggg gkttcagcgc gatctcctgc 180
accgtcgagg gggcaccgcc agctttggca agagcttcgc gcagaaatct ggctacttcc 240
tgtgccttag ttctctgggc agcctagaga acccganga gaacgtggtg gccgatatcc 300
agatcggtgt ggacaagagc cccctgccgc tgggcttctc ccccgctcgc gamcccatgg 360
attccaaggc ctctgtgtcc aagaagaaac gcatgtgtgt gaarctgttg cccctkgar 420
ccamggacac ggctgtgttt gatgtccggc tgagtgggaa gaccaagaca gtgcctggat 480
accttcgaat aggggacatg ggcggtttg ccatctggtg caagaaaggc caagggcccg 540
aggccagtgt ccaaagccc cgangtcctc agcccgggac atgcaagggc ttctctntgg 600
angcagccag ccagcccaag ttaagggcgg gcctncttgg aagccggaca agcgttc 657

```

<210> 168

<211> 1026

<212> DNA

127

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1011)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 168

```

ggcacgagga gagatggagg ggcggcaggt gctggagggtc aagatgcagg tggagtacat 60
gtcattcagc gcacacgcgg acgccaaggg catcatgcag ctggtggggc aggcagagcc 120
gkagagcgtg ctgctggtgc atggcgaggg caagaagatg gagttcctga agcagaagat 180
cgagcaggag ctccgggtca actgctacat gccggccaat ggcgagacgg tgacgctgcc 240
cacaagcccc agcatccccg taggcatctc gctggggctg ctgaagcggg agatggcgca 300
ggggctgctc cctgaggcca agaagcctcg gctcctgcac ggcaccctga tcatgaagga 360
cagcaacttc cggctggtgt cctcagagca agccctcaaa gagctgggtc tggctgagca 420
ccagctgcgc ttcacctgcc gcgtgcacct gcatgacaca cgcaaggagc aggagacggc 480
attgcgcgtc tacagccacc tcaagagcgt cctgaaggac cactgtgtgc agcacctccc 540
rgacggctct gtgactgtgg agtccgtcct cctccaggcc gccgcccctt ctgaggacct 600
aggcaccaag gtgctgctgg tctcctggac ctaccaggac gaggagctgg ggagcttctt 660
cacatctctg ctgaagaagg gcctcccca ggccccagc tgaggccggc aactcaccca 720
gccgccacct ctgccctctc ccagctggac agaccctggg cctgcacttc aggactgtgg 780
gtgccctggg tgaacagacc ctgcaggtcc catccctggg gacagaggcc ttgtgtcacc 840
tgccctgcca ggcagctgtt tgcagctgaa gaaacaaact ggtctccagg ctgtcttgcc 900
tttattcctg gttagggcag gtggtcctag acagcagttt ccagtaaaag ctgaacaaaa 960
aaaaaaaaaa aaaaaattgg gggggggccc gttaccatt tggcctttag nggggggttt 1020
aaatta                                     1026

```

&lt;210&gt; 169

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (730)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (733)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (754)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 169

```

ggcataaaca tcgggtggtg ttcagatcct gctgccggca gctcgaggct aggatggctg 60
gagatgtgag ggcccttgtc tcatcacatc cgagcacagc tcagcaagat gctcttagct 120
agraaacaga ttttatgtgt taatgttaaa aattttgcag ttatttatct tgtggatatt 180

```

```

acagaagtgc ctgacttcaa caaaatgtat gagttatacg atccatgtac tgcattgttt 240
ttcttcagga acaagcacat catgattgac ttggggactg gcaacaacaa caagattaac 300
tgggccatgg aggacaagca ggagatgggtg gacatcatcg agacgggtga ccgcggggcc 360
cgcaaaargcc gcggcctgggt ggtgtccccc aaggactact ccaccaagta ccgctactga 420
ggcgccctca gtctgcgcgg ataaatgtcg tggagccctt tttgtatgga aacgttttaa 480
gctattttaa gcctttggaa aatacaggaa gctccagggc tggagcacct ctgagatgga 540
attgataaca tggctttaac tcaccgaaat aaacaagcac gtggtgagag gagcaggcct 600
acttgtttgt tctcaggaaa cttaatgaat agattactga ttttcctagt caaagttaat 660
tcttaccctt ggagtaaaac gaagggtgtt atcctgtgag cctgtgcgtt ttgcatactg 720
ggttggtttn ctngggcttc ggtgacagca tatnccgcga gctgggcttt aaca 774

```

&lt;210&gt; 170

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 170

```

ggcacgagcg gcggtggggc ggacagccgg ggtgcgcact tggggccccc tggccatggc 60
ggcgaagggtg gacctgagca cctccaccga ctggaaggag gcgaaatcct ttctgaaggg 120
cctgagtgtac aagcagcggg aggaacatta cttctgcaag gactttgtca ggctgaagaa 180
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ggaggtggac gccatcgtca acgcccgcga cagctccccg ccccgaggga gcctaattaa 360
agatcttcgt tgtggcaaaa aaaaaaaaaa aaaaaaaaaa aa 402

```

&lt;210&gt; 171

&lt;211&gt; 796

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 171

```

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aaaaaaaaag gggtccc 796

```

&lt;210&gt; 172

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 172

```
aattcggcag agcctgggtg cagggcagct aggggtctct gcattctcca catggtctca 60
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ccaccacccc tctggtcctt ctgacccac ttatgtgtgt gtgaattttt tttttaaatg 420
attccaaata aaacttgagc ccactcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 478
```

&lt;210&gt; 173

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (59)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 173

```
tttcccaatg cctgccacca cggagactca gggccacctg ccaccctccc tcgctgcent 60
ctgcccttgg gatggggcgc tcctgaatgt acgtgggccc cgggtgtttac aaggaggtga 120
tcattctaaa cctctgccag aagcagggtg tggagaagat accactgccc ttttttgcca 180
tgtccctgag cctgtccccc gggacccacc tcctggctgt tggctttgct gagtgcacgc 240
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tgcacctgtg cagggtttaca ccktccgcca ggctgctctt caccggccgc cgcaacgaga 360
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acgcctgggt atgccaggca cctggacaca ggcttgccag aggcgccagg ttgtcaatgg 480
cctcatgctg ggacaggcca ggattcacgt aaatcgccct gagcaagctg ttgtaaattt 540
ggcgccctgt gaatactttc atacctgttg ccccttttgc taagaaatct ttaatgtttc 600
tatcttgtaa taaacatggg cattttattgc aaaaaaaaaa aaaaaaaaaa aaaaaa 656
```

&lt;210&gt; 174

&lt;211&gt; 1891

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

```
gagcccccct cgagagggga gaccagcggg ccatgacaag ctccaggctt tggttttcgc 60
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```

```

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```

<210> 175

<211> 2161

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 175

```

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attaaggctg catatccaga tttggaaaat cctcctctgc tagtgacacc aagtcagcag 360
gccaagtttg gggactatca rtgtaatagt gctatgggta tttctcagat gctcaaaacc 420
aaggaacaga aagttaatcc aagagaaatt gctgaaaaca ttaccaaaaca cctcccagac 480
aatgaatgta ttgaaaaagt tgaaattgct ggtcctgggt ttattaatgt ccacttaaga 540
aaggattttg tatcagaaca attgaccagt cttctagtga atggagttca actacctgct 600
ctgggagaga ataaaaagg ttagttgac ttttctccc ctaatatagc taaagagatg 660
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gcagggtatg acgtgctcag gttaaatcat gtaggagact gggggacmca gtttggcatg 780
ctcatcgctc acctgcaaga caaatttcca gattatctaa cagtttcacc tcctattggg 840

```

```

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caagcataag taaagaaaat ttgtcaacca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2160
a 2161

```

&lt;210&gt; 176

&lt;211&gt; 2411

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

```

gggatcctgg ctaccactct gaatccgata ccgcttctct tagaccgtca ctgagacaac 60
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ctcatcmaaa tgctgctgta tttatgagaa acctcgggcc tttggcgaga gctccacgga 240
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```

<210> 177

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1326)

<223> n equals a,t,g, or c

<400> 177

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gcagaatggc cttgcttgag gtttttgcaa atctctcggg tgctctggctt agtgggaggc 180
agctgggccc tcatacctgc ctccgcactt cagctgtttg acataaaccc agcttcgtgt 240

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```

gagtgaagg gaagggcctg gggaccctca gaggttctcg gaccacactt tgagaactcc 300
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ctttgtggag aaccgctggt gtctgaagcg ggtgtcagcc ccactgcacc ttggtcttct 420
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tacggttatc cggaagctaa caatttcatg tgtngttgga ggacgacaag tgggggacaa 1260
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caacanattt gaagcccg                                     1338

```

<210> 178

<211> 1614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 178

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tgtactactg gtacctggtc accgagggcc agatcttcat cctcttcate ttacaccttc 180
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1614

```

<210> 179

<211> 4292

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4288)

<223> n equals a,t,g, or c

<400> 179

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tccaatatta aaccattttc ctaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 4260
aaaaaaaaaa aaaaaaaaaa aaaaaanaa aa 4292

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&lt;210&gt; 180

&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> misc feature  
<222> (235)  
<223> n equals a,t,g, or c

<400> 180  
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ccagagggaa gtgtggtgtg tgggcacaac gggaaacgct aaccaggcac agagctcaac 180  
ggagcagaca ctgctgaagc ccaagtgaga aaccacggcg ctttggcgtg taacntggaa 240  
tat 243

<210> 181  
<211> 813  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (266)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (723)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (726)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (738)  
<223> n equals a,t,g, or c

<400> 181  
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aggatgacaa gtctctctcc ttccacatgg agatgggtgt gcatgtggat gcagmccagg 180  
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tggagctagt gcagcaggta gacranggac gacgccatct accacgtcac cagmcctgmc 300  
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acgccagagt acagacgcgg agagaccctc tgctcaggct tctgcctctg gcgcgagggg 480  
gaccagctga ccaaggtagc ctgtagttaga ctccgggtcct gtccacagcc ctagctgcca 540  
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tggccccggg ggaggatgcc agcagcctgc ctatggytgc cagctgtgct gtgagccag 660  
cagcatggcc tgcactctgg aagggacaca ggttgctccag agcccctggc acaactgtctg 720  
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gggccagcct ggtggccaca gtgcacgtgg ggg

813

&lt;210&gt; 182

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (37)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (49)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (370)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (567)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 182

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ggttttacat gaccgcagtc gccctcagtt tcaccnngta ggaatcggnc tggggatgca 60
ccgtgctact ctcttcctcc aggcgggtcc ccggcgcgtg cgcgcgatcc atgtccatgt 120
ccgcgcctat caataaagtt gctcacttgt tgccggcccg ctagnmccgaa aggttgccgcg 180
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aaaaaaaaat yggggggggg ccscakacca attkccctta ag 822
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&lt;210&gt; 183

&lt;211&gt; 1095

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1082)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 183

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cctcacctgtg tccgcgctct tttcgcggat cttcgggaag aagcagatgc ggattctcat 180
ggttggcttg gatgcggctg gcaagaccac aatcctgtac aaactgaagt tgggggagat 240
tgtcaccacc atcccaacca taggcttcaa tgtagaaaca gtggaatata agaacatctg 300
tttcacagtc tgggacgtgg gaggccagga caagattcgg cctctgtggc ggcactactt 360
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<210> 184

<211> 3675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3329)

<223> n equals a,t,g, or c

<400> 184

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ggagctgtcc ctgtgcatag accagtgggt gcacgtggaa actctgaacc tgtcccgaaa 360
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140

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gatctagaac tagtc 3675
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&lt;210&gt; 185

&lt;211&gt; 1040

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

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```

&lt;210&gt; 186

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (26)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<400> 186

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ancagctata gatcatgaca ggcaanggta nactgacagt acggtcggat tcccgggtcs 60
acccacgcgt ccgcangagc ggccgggtgg cgggaggaac cgttacggga actgaagttg 120
cggattaagc ctgatcaaga tgacaacctc ccaaaagcac cgagacttcg tggcagagcc 180
catgggggag aagccagtgg ggagcctggc tgggattggt gaagtcctgg gcaagaagct 240
ggaggaaagg ggttttgaca aggcctatgt tgtccttggc cagtttcttg tgctaaagaa 300
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tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 817
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<210> 187

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 187

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ctgccctgct gctggaacac cgagccagcc tgagcgctaa ggaccaagac ggctggggagc 60
gctgcacgcc gcggtactgt gggccaggtg cctggtggag ctgctcgttg cgcacggggc 120
cgacctgaac gaaagtccc tgatggacga gacgccctt gatgtgtgct gggacgagga 180
ggtgcggggc aagctgctgg agctgaagca caagcacgac gccctcctgc gcgccagag 240
ccgccagcgc tccttgctgc gccgcgcac ctccagcgc gccagccgcr ggaagggtgt 300
gaggcggtgt agcctaacc agcgcaccga cctgtaccgc aagcagcacg cccaggaggc 360
catcgtgtgg caacagccgc cgcccaccag cccggagccg cccgaggaca acgatgaccg 420
ccagacaggc gcagagctca ggccgcccgc cccggargag gacaacccc aagtgggtcag 480
gccgcacaat gccgagtag ggggtcccc agtgcggcat ctatactcca agcgactaga 540
ccggagtgtc tcctaccagc tgagccccct ggacagcacc acccccaca ccctggtcca 600
cgacaaggcc caccacaccc tggctgacct gaagcgccag cgagctgctg ccaagctgca 660
gcgaccccca cctgaggggc ccgagagccc tgagacagct gagcctggcc tgcctggtga 720
cacggtgacc cccagcctg actgtggctt cagggcaggc ggggacccac ccctgctcaa 780
gctcacagcc ccggcggtgg aggtccccgt ggagaggagg ccgtgctgcc tgctcatgtg 840
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ggtgcgtgcc ctggtgctgc ggggtgcagc cggaacccc ggcttctact gtacaggaca 960
ctggccctc tcaggtcaga agacatgcct ggagggatgt ctggctgcaa agactatatt 1020
tatcctgcaa ctcttgataa agggctgttt tgccatggaa aaaaaaaaaa aaaaaaaaaa 1080
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<210> 188

<211> 1286

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature  
<222> (1245)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1254)  
<223> n equals a,t,g, or c

<400> 188  
gcattgattct tgttttgtag agatgcaggc tcaaaaagta atgcatgttt cttcagcaga 60  
actgaattat tcaactgccat atgactctaa acaccaaata cgtaatgcct ctaatgtaaa 120  
gcacccatgac tctagtgtc ttggtgtata ttcttacata ctttttagtg aaaatcctta 180  
tttttcatca tggcctccaa gtggtaccag ttctaagatg tctcttgatt tacctgagaa 240  
gcaagatgga actgtttttc cttcttctct gktgccaaaca tcctctacat ccctcttctc 300  
ttattacaat tcacatgatt ctttatcact gaattctcca accaatattt cctcactatt 360  
gaaccaggag tcagctgtac tagcaactgc tccaaggata gatgatgaaa tccccctcc 420  
acttctctgta cggacacctg aatcatttat tgtggttgag gaagctggag aattctcacc 480  
aaatgttccc aaatccttat cctcagctgt gaaggtaaaa attggaacat cactggaatg 540  
gggtggaaca tctgaaccaa agaaatttga tgactctgtg atacttagac caagcaagag 600  
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tctcccagaa agaactctag agtcttctt tcttgccgat gaagattgta tgcaggccca 720  
atctatagaa acatattcta ctagctatcc tgacaccatg gaaaattcaa catcttcaaa 780  
acagacactg aagactcctg gaaaaagtgt cacaaggagt aagagtttga aaattttgcg 840  
aaacatgaaa aagartatct gtaattcttg cccaccaaac aagcctgcag aatctgttca 900  
gtcaataaac tccagctcat ttctgaattt tggttttgca aaccgttttt caaaacccaa 960  
aggrccaagg aatccaccac caacttgga tatttaataa aactccagat ttataataat 1020  
atgggctgca agtacacctg caaataaaac tactagaata ctgctagtta aaataagtgc 1080  
tctatatgca taatatcaaa tatgaagata tgctaattgt ttaatagctt ttaaaagaaa 1140  
agcaaaatgc caataagtgc cagttttgca ttttcatac atttgcatg agttgaaaac 1200  
tgcaataaa agtttgctac ttgagcttat gtacagaatg ctatntgggg aacnctttta 1260  
ggatgggttt tatttttcca tttttg 1286

<210> 189  
<211> 1738  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (1480)  
<223> n equals a,t,g, or c

<400> 189  
gcggcgccct cggagccaaa ggcgcgcggc ggacacggcg gggccctcgc gcgcctggag 60  
acgatgccaa agctgcaggg cttcaggttc tggagccgca ccctgcgagg ggcccgccac 120  
gtcgtggccc ccatggtgga ccagagcgag ctggcctgga ggctgctgag ccggcgccac 180  
ggggcacagc tctgctacac gcccatgctg catgccagg tctttgtccg cracgccaac 240  
taccggaagg agaacctgta ctgcgagggt tgccccgagg accggccccct catcgtgcag 300  
ttctgtgcca atgaccgga ggtgtttgtt caggcggtc tcctggctca ggattactgt 360  
gacgccattg acctgaactt gggctgcccc cagatgatag ccaagagagg tcactatggc 420

```
gcctttctgc aggacgagtg ggacctgctc caaagaatga ttttgctggc ccacgagaaa 480
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acgcccagat gctggagaag gccggctgcc agttgctgac ggtgcacgga cgcaccaagg 600
agcagaaggg gccctgtctg ggtgcagcgt cctgggagca tatcaaggct gtgcggaagg 660
ctgtggccat ccctgtgttt gctaacggga acatccagtg cctgcaggac gtggagcgt 720
gcctccggga cacgggtgtg cagggcgtca tgagcgaga gggcaacctg cacaacccc 780
ccctgttcga gggccggagc cctgccgtgt gggagctggc cgaggagtat ctggacatcg 840
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gcacgcgtgc tgtgagccag gagctgaagc tgcggtgtca ggaggagata tccaggcagg 1020
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cggggcccgaggaggaggagc aaggagaagg caggtgcgcg cascaagcgg gccctggagg 1140
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cccacaagac cttcgacccc tctctgaagc caaaatatgc aaagtgtgac cagtgtggaa 1260
acccaaaggg caacagatgt gtgttcagcc tgtgccgcgg ctgctgcaag aagcgagcct 1320
ccaaagagac tgcagactgc ccaggtcacg gattgctttt taaaaccaa ttggagaagt 1380
ctctggcctg gaaagaggcc cagcctgagc tgcaggagcc tcagccagca gcacctggaa 1440
caccaggtgg cttctccgaa gtcattggca gtgccctggn ctgaaggccc acaaccccca 1500
ccccaggac tgcgtctgga gcctggacac gtcctactta agaaaatgcc ttttactcag 1560
ggaatctcct gctacttaat gtgaaaagac acgcccattgt cccctctgc ccactctggg 1620
ggcctggaaa tgcctgcagt gggagcaggc cccaggctgg acctgccctg tcctcagcac 1680
gcgtgtgcaa aagtgaacaa taaatcattt caaagatgaa aaaamaaaa aaaaaaaa 1738
```

<210> 190

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1910)

<223> n equals a,t,g, or c

<400> 190

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agcacatcaa atgccccac tccaagtaag ggtgcacgtt catcggaac caggacactt 60
acgagaccca cctggagact tgccgcttcg agggcctgaa ggagtttctg cagcagacgg 120
atgaccgctt ccacgagatg cacgtggctc tggcccagaa ggaccaggag atcgcttcc 180
tgcgtcccat gctgggaaag ctctcggaga agatcgacca gctagagaag agcctggagc 240
tcaagtttga cgtcctggac gaaaaccaga gcaagctcag cgaggacctc atggagtcc 300
ggcgggagcg atccatgtta aatgacgagc tgtcccacat caacgcgcgg ctgaacatgg 360
gcaccttagg ctctacgac cctcagcaga tcttcaagtg caaagggacc tttgtgggcc 420
```

```

accagggccc tgtgtggtgt ctctgcgtct actccatggg tgacctgctc ttcagtggct 480
cctctgacaa gaccatcaag gtgtgggaca catgtaccac ctacaagtgt cagaagacac 540
tgaggggcca tgatggcatc gtgctggctc tctgcatcca ggggtgcaaa ctctacagcg 600
gctctgcaga ctgcaccatc attgtgtggg acatccagaa cctgcagaag gtgaacacca 660
tccggggcca tgacaacccg gtgtgcacgc tggctcctc acacaacgtg ctcttcagcg 720
gctccctgaa ggccatcaag gtctgggaca tcgtgggcac tgagctgaag ttgaagaagg 780
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gcggctccta ccagacaatc aagatctggg acatccgaac ccttgactgc atccacgtcc 900
tgcagacgtc tgggtggcagc gtctactcca ttgctgtgac aaatcaccac attgtctgtg 960
gcacctacga gaacctcatc cacgtgtggg acattgagtc caaggagcag gtgcggaccc 1020
tcacgggcca cgtgggcacc gtgtatgccc tggcggtcac ctgcacgcca gaccagacca 1080
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gccaggctgt gggttccctc gaaccagccc tggaccttc tgagccaggc tggccacatg 1320
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ctccatcccc accctagatg gagcgagggc ctttttactc accttttcta ccgtttttag 1560
actgtatgta gatttggtta cctcctggtt gaaataaatg ctccacagac tgtggctgtg 1620
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gcactggctg ctgtgagtgg gggggcatgg ggcagtttcc tttggtggac cccaggaytt 1740
cggsgcamtc cggggscctc cctccctgct aggaggcaca ccctcagagg agctgcaagc 1800
ccgtggctgc ctgtacatg ccctgcttnc acgtggctgc acgtgacac acccacattc 1860
accaaaccca cccngccctc gggacgcaac cagccagga ggaggacacn ggccgccgag 1920
agc 1923

```

```

<210> 191
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<400> 191
ccaagtgtgt tgatacatta agctatgaga catctaaaat aatgaaactt ggaacttagt 60
ggaacatgta catgttttca gcatacttaa acccaaaaat cattaatttt cagaacttaa 120
tcagtgtctt tacatttgtt ttttctttta tgctagtggg aaatggagga tgaaratata 180
attgrtgtgt tccaacagca gacgggrggt gtctactgaa aagggaacct gcttctttac 240
tccagaactc 250

```

```

<210> 192
<211> 1902
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1901)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 192

ngggacgntg gtagaccanc gcgtaccgct gagtcaratt ttggcatcaa cttgaagggc 60  
ccaaaaatca aaggaggtgc ggatgtttca gggggtgtca gtgcccara catcagcctt 120  
ggtgaagggc atttragtgt taaaggttcc gggggtgagt ggaaggacc ccaagtctcc 180  
tctgctctca acttgacac atctaagttt gctgggggcc ttcatctctc aggaccaaag 240  
gtggaaggag gtgtgaaagg aggtcagatt ggactccagg ctcttgggct gagtgtgtct 300  
gggcctcaag gtcacttga aagtggatct ggaaaagtaa cattccctaa aatgaagatc 360  
cccaaattta ccttctcttg ccgtgagctg gttggcagag aaatgggggt ggatgttcac 420  
ttccctaaag cagaggccag catccaagct ggtgctggag acggcgagtg ggaagagtct 480  
gaagtcaaac tgaaaaagtc caagatcaaa atgcccaggt ttaatttttc caaacctaaa 540  
gggaaaggtg gtgtcactgg ctcaccagaa gcatcaattt ctgggtccaa aggtgacctg 600  
aaaagttcaa aggccagcct gggctctctg gaaggagagg cagaggccga agcctcttca 660  
ccgaaaggca aattctcctt atttaaaagt aagaagccac ggcaccgctg caaatcatt 720  
cagtgatgaa agagagttct ctggaccttc caccgagcag ggnacgctgg agtttgaagg 780  
tggggaagtg tctctggaag gtgggaaagt taaagggaag cacgggaagc tgaaattcgg 840  
tacctttggt ggattgggtg caaagagcaa aggtcattat gaggtgactg ggagcgatga 900  
tgagacaggc aagttacagg ggagtggggt gtccctggcc tctaagaagt cccgactgtc 960  
ctcctcttct agcaatgaca gtgggaataa ggttgcatc cagcttcccg aggtggagct 1020

```

gtcagtttcc acaaagaaag agtagcaggc ctttgtagtg gtgtacatat atatatatat 1080
aacaaaacat cagccttggg tgggtgtgtc ctatataaac tccaaaggga aacacaccga 1140
ctgcctcagc aatcatgcaa agaccttgcc tggcccgggtg gcaagcgctg aaaaaccgac 1200
cgcctgtagg ctcttggaac tatacagata ggtaaagagt tccaagttcg tccagcccat 1260
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gctgagagct cctgtttact aagcaagctt ttgtgtttat tctcctcatt tttactgaac 1380
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gttagtaagg gtgggtgggg tgatgggttg cagacggagg tcaggtcttc ctctttcctg 1500
agactggatc tgttcaaaca gcaaacgccc acagatggcc cagaggtggt ggtagtcagg 1560
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ccccctcaac atgaggggct tccattttct gtgttttgta agggaaactgt ttccttcatg 1740
ccgccatggt cctgatatta gttctgattt ctttttaaca aatgttatca tgattaagaa 1800
aatttccagc actttaatgg ccaattaact gagaatgtaa gaaaattgaw gctgtacaag 1860
gcaaataaag ckgttattaa cctgaaaaaa aaaaaanan nn 1902

```

<210> 193

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 193

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ttttgcttaa agctatttan gtgacactat agaaggtagc cctgcaggta ccggtccgga 60
attcccgggt cgaccacgc gtccgggggt gcagacggag gtcaggctct cctctttcct 120
gagactggat ctgttcaaac agcaaacgcc cacagatggc ccagaggtgg tggtagtcag 180
gggtgtgtgg tgtttttagg gttctttagt gttgtttctt tcacccaggg gtggtggtcc 240
cagccagttt ggtgctgacg gtgagaggaa attagaatct gtttgcaaat tgtccaaccc 300
acccctcaa catgaggggc ttccattttc tgtgttttgt aagggaaactg tttccttcat 360
gccgccatgt tcctgatatt agttctgatt tctttttaac aaatgttatc atgattaaga 420
aaatttccag cactttaatg gccaattaac tgagaatgta agaaaattga tgctgtacaa 480
ggcaaataaa gctgtttatt aaccttga aaataaaaaa aaagggngng cccgncccat 540

```

tgccctaggg ggggttaant

560

&lt;210&gt; 194

&lt;211&gt; 590

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (589)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (590)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 194

ctgcagggtac cgggtccggaa ttccgggtcg cccacgcgctc aggcggcgcc gatgaccttc 60  
tgccgggtcg tgaaccggtg tggcgaggcg gcgcggagcc tgcccctggg cgccaggtgt 120  
ttcggggtgc ggggtctcgcc gaccggggag aaggtcacgc acactggcca ggtttatgat 180  
gataaagact acaggagaat tcggtttgta ggtcgtcaga aagaggtgaa tgaaaacttt 240  
gccattgatt tgatagcaga gcagcccggtg agcgagggtg agactcgggt gatagcgtgc 300  
gatggcggtg ggggagctct tggccacca aaagtgtata taaacttgga caaagaaaca 360  
aaaaccggca catgcggtta ctgtgggctc cagttcagac agcaccacca ctagagcgtg 420  
tggcacgccg ggggtcccgc agcatcctgt gagcatttcc gcggggaagc tgagcacgtg 480  
aagctcgctg gttctgtgcg aagggtattc ctggtgctga ataaagggtg ttgctgtcaa 540  
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaann 590

&lt;210&gt; 195

&lt;211&gt; 691

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (10)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (579)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (618)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<400> 195

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attggcatcn tctgaaagcg ttttagacag gcagaatctc tggctctccc tctctgcatt 60
ccccaccag tgaatgaatg agaatctgca tttcttgaga tcataagaat actgacatac 120
agatgagata aaactcatgt gaatatcagt tttaaggctg gtgggttcatt tgttttggtc 180
atattgagtc aggattgact aatgaactgt agaggttttg cattatgcaa atgctcttaa 240
tttcttgat taggaattag acgctcccc ccaagtctta aataatgttt taatctgtat 300
ccttttatta taagaagatt agtaatatc tacagataat aacaacaact ggtatagtat 360
attttattta cattcttcat tcttaggaga aaatgctgag aagcttctgc agttcaagcg 420
ttgggttctg tcaatagtag agaagatgag catgacagaa cgacaagatc ttgkttactt 480
ttggacwtca agcccatcac tgccagccag tgaagaagga ttccagccta tgccctcaat 540
cacaatawga ccaccagatg accmacatct tcctactgna aaataacttg atttcttgga 600
ctttaccttc ccaactctntt cctttaaaca ggattcttna aaccggaaat tgggtanctc 660
gccatttagg anccaaaaat tttgggtttt g 691
```

<210> 196

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 196

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gnataatgct ggccattttg cctttctgac atttccttgg gaatctgcaa gaacctcccc 60
tttccttcc cmcaataaga ccatttaagt gtgtgytaaa caactacrga atactaaata 120
aaaagtttgg ccaaaaccaa ccatgaagct gcaaagggtgc ttgctcttac tstttcaa 180
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```

ttttgcaact ctartgtctc actttttaaag gaacagcttg attgcaaagg agaaaataga 240
taagcaatga akttatctcc aacttcctaa aggcttatga cttctaaaaa gtgaatctat 300
cagcattcca catcagattt aaagcatcaa atgcctgtga aacagcaaag atgggtgaag 360
attgtgctca ttatgtttgt ggagtgtgta ttgattcaca gtagataacg ctggcagtaa 420
gagaaatcaa atgctaagag ttgttgaagc agaaggcggc tgattgttg taagtcagt 480
cagttgcata agcagtgtg tcagaattgg tttggtgcag gcaatagatt ttgccttcaa 540
gggttcctgt ggatctcagg aaggcatcag tgttgattaa cactcataac tagggagtga 600
stggtagtta cttaaagtaat tgaccaaatg gaaaagggga agtaattaag gaaattggt 660
agtggaggta gtcaggargt tctygtggtt cttacayag attttacagc tttggstttc 720
attttgttta gctaaagtca tggggacaac tcttcaattt agaacttaag ttgaattata 780
aaaatgatgg atataagtgg tagctgtatc tagtgaagt tctgtcagta agtgaaacat 840
tttttggtgg tggtttatcc acaaacagtt tagttgtaga ataaaactta tgagtacat 900
ctggaaaagta accatgctaa gatggcaagc aactggaaa caattaggcc acttggctt 960
cttttgctgt attgttttat aagcctactt tacctcccag tcttggaac aagttttagt 1020
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gttgttggat tagaggaact aacccaactt atatgatttt tttttgttt ttgtcgtgta 1140
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaagana aaaaaaaaag ggggggccnc cc 1772

```

&lt;210&gt; 197

&lt;211&gt; 675

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (657)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (671)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 197

```

accacgcgt ccggacttcc tcttcgttaa gtcggccttc ccaacatggc gcagtctatt 60
aacatcacgg agctgaatct gccgcagcta gaaatgtca agaaccagct ggaccaggaa 120
gtggagtctt tgctcacgtc cattgtctag ctcaaagtgg tacagaccaa gtatgtggaa 180
gccaaggact gtctgaacgt gctgaacaag agcaacgagg ggaaagaatt actcgtccca 240
ctgacgagtt ctatgtatgt ccctgggaag ctgcatgatg tggaacacgt gctcatcgat 300
gtgggaactg ggtactatgt agagaagaca gctgaggatg ccaaggactt cttcaagagg 360
aagatagatt ttctaacc aa gcagatggag aaaatccaac cagctcttca ggagaagcac 420

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150

```

gccatgaaac aggccgcat ggaaatgatg agtcagaaga ttcagcagct cacagccctg 480
ggggcagctc aggctactgc taaggcctga gagtttttgc agaaatgggg cagagggaca 540
ccctttgggc gtggcttcct ggtgatggga agggctctgt gttttaatgc caataaatgt 600
gccagctggg caraaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacccnngg 660
gggggcccgg naccc 675

```

&lt;210&gt; 198

&lt;211&gt; 557

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (451)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (461)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (464)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (488)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (492)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (495)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 198

```

tttagtgac acgtatagaa ggtcgctgc aggtaccggw ccggaattcc gggtcgaccc 60
acgcgtccgg gaacacaaga tgccgaaggg aagaaggcga aggggaagaa ggtggccccg 120
gccccgccc tcgtgaagaa gcaggaggcc aagaaggtag tcaacccgct gttcgagaag 180
cggccaaga acttcggcat cggtcaggac atccagccca agcgggacct gacgcgcttc 240
gtcaagtggc cgcgctacat ccggctgcag cggcacgcgc gatcctctac aagcggctga 300
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gttgccccgg gcggagaaga aarcggccgg ncaaggggga nttncggaac aagcggsgcc 480
cgttggtntc gnaancgggg ttgaaaacgg ttcaacaagt tggttgaga acaagaaggc 540

```

gccattgggtt cggttatt

557

&lt;210&gt; 199

&lt;211&gt; 2611

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2549)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2560)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2585)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 199

tcnccgggtcg acccacgcgt ccggcgagga gtaccttacc aacttgccc acatggacat 60  
cgacaaggac tggaggcccc gctgtacct acccccgagg gctggtcct cttcctccag 120  
cgctactacc aagtgtcca cgaaggggca gaactcaggc acctcgacac tcagggtccag 180  
cgctgtgagg acatcctgca gcagctgcag gccgtggtag cccagataga catggaagg 240  
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catccataag ccacaaccac tggagaaant tttgcactgn ttagtgtagt tggttgaatg 2580
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```

<210> 200

<211> 2316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2302)

<223> n equals a,t,g, or c

<400> 200

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gtgggtccag gtggggctgc tggccgtgcc cctgcttget gcgtacctgc acatcccacc 120
ccctcagctc tcccctgccc ttactcatg gaagtcttca ggcaagtttt tcaattacaa 180
gggactgcgt atcttctacc aagactctgt ggggtgtggt ggaagtccag agatagttgt 240
gcttttacac ggttttccaa catccagcta cgactggtac aagatttggg aaggctctgac 300
cttgaggttt catcgggtga ttgcccttga tttcttaggc tttggcttca gtgacaaacc 360
gagaccacat cactattcca tatttgagca ggccagcatc gtggaagcgc ttttgcgga 420
tctggggctc cagaaccgca ggatcaacct tctttctcat gactatggag atattgtgc 480

```

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tcaggagctt ctctacaggt acaagcagaa tcgatctggt cggttacca taaagagtct 540
ctgtctgtca aatggaggtat tctttcctga gactcaccgt ccactccttc tccaaaagct 600
actcaaagat ggaggtgtgc tgtcacccat cctcacacga ctgatgaact tctttgtatt 660
ctctcgaggt ctcacccag tctttgggcc gtatactcgg ccctctgaga gtgagctgtg 720
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tgattattta aaattcgttt ttttaaatga gcaacttcaa gtataacaac tttgaaactg 2220
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```

<210> 201

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (19)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1145)  
 <223> n equals a,t,g, or c

<400> 201  
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 aaggtacagt cgccgcgtgc ggagcttggt actggttact tggcctcatg gcggtccgag 120  
 cttcgttcga gaacaactgt gagatcggct gctttgccaa gctcaccaac acctactgtc 180  
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 gcaatgtcac cacctgcaat gactacgtgg ccttggtcca ccagacttg gacagggaga 480  
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 cggcnac 1147

<210> 202  
 <211> 688  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (477)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (684)

<223> n equals a,t,g, or c

<400> 202

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acggaagggc gggtaggacg gagtttcgtc atgttgcca ggcccattg agatcttga 180
agatatctc aacgtgaggc tctgctgcc aagaagtga gattaagtgc tggacggcg 240
tggccacttg gctctgggtg gccaacgat agaactgtg catctgcagg atggcattta 300
acggatgctg ccctgactgc aagggtgccg gcgacgactg cccgctggtg tggggccagt 360
gctcccactg cttccacatg cattgcatcc tcaagtggct gcacgcacag cagggtgcagc 420
agcactgccc catgtgccgc caggaatgga agttcaagga gtgaggccc acctggntct 480
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cgcccctgag ctgcaacaag gtggaacaa gggctggagc tgcgtttgt ttgccatcac 600
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aaawaaawaa atctcggggg gggncccg 688
```

<210> 203

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 203

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gcaaaactgg aagaattgtc tggctattat ctaagctgtt cataagctgg aacaagtaga 180
tctgagggtg agaggagttc tgttttaact aggactgagt ttcaaataga gatgtttcag 240
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tttt 304
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<210> 204

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 204

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```

tgatggccct gcaaggctgt gggctccgac ctcaccggga gtcgamarcg agaggttcgc 120
cgaagagcga ggttctgggc gagcgtgaa cgccggcccc aagcaccggt ggtctttaca 180
cagtcgcgct ccacagactc tgacgaagac gtggatctgc tctcgcttta gctgctcgcg 240
gtcctccaga tcatgtccgc gactcctgcg actccgcgcg gaaaaaaaaaag ttgcccaggc 300
gtggactcaa tgacytttcc aastgtgcmc ctcgytgcct ggaccgggtt gagcgcgggt 360
gcccaagttg aactttttgn ggggaggggt ttctctaagg gctgttgtct caatggg 417

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<210> 205

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 205

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gcggggccac gcagggatgc tgttcccaan tcacgganta tctggtgggc ntcgcaatgg 480
ccantgggac agatggcacg tgaaaggggc cgttccgnt ctcaagcggc agaagcacia 540
gaccgcggag g 551

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<210> 206

<211> 1101

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<400> 206

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ggcgccctgaa cccaagacct ctggatgagc tgccccgttc agaccatgga tcctgaggtg 180
accttgctgc tgcagtgcc tggcgggggc ctgccccagg agcagataca ggccgagctg 240
agccccgcc atgaccgtcg cccactgcc ggtggggacg aggccatcac tgccatctgg 300
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ggcagcccc agcaccagga cctcgctgg cagctggtg tacatgaact cttttccagt 720
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ctgttkggca tcgcccgaat tgagaccagt gctggccgag ccagtgccga gttctatgtc 840
cagtgcagcc tgacttctga gcaggtgagg aagcactacc tgagtggggg acccgaggcc 900
cacgagtcta caggaatctt ctttgtggag acacagaacg tgcggagatt gcccgagacg 960
gagatgtggg ctgaactctg cccctcgcca aaggcgccat catcctctac aaccgggttc 1020
agggaagtcc cactggagcg gccctagggt cccagccct actcccgccg ctctgaaaaa 1080
aataaacgac tttattcttg g 1101
```

<210> 207

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 207

```

gggtcgaccc acgcgtccgc ccacgcgtcc ggcr gataga gcgccatgaa ggcctcgggc 60
acactgcgag aatacaaggt ggtggggcgc tgcctgccca ccccaaatg tcgcactccg 120
ccgctgtatc gcatgcgaat ctttgacact aatcacgtgg tcgccaagtc ccgcttttgg 180
tactttgtgt ctcagctgaa aaagatgaag aagtcctcag gggaaatcgt ctactgtgga 240
caggtgtttg agaaatcccc cttgcgagtg aagaacttcg gcatctggct gcgctatgac 300
tcgagaagcg gtaccacaaa catgtaccgg ggagtaccgg ggacctgacc amcgcgggcg 360
ccgtcaccca gtggttaccg agacatgggc gcccgacacc gttgcccag cgcatcgcg 420
tccagatnct tgaagtggna ggagattgnc agccanfaat tgccgcccgg ccancattca 480
agcattttcca aggattccaa gatcaattcc cattg 515

```

<210> 208

<211> 269

<212> DNA

<213> Homo sapiens

<400> 208

```

aagcattgtg ggtaaaggcc tggaggcagg aaagtgaagg acaatttcaa gaaactcagt 60
tcatcaattt tcatcaacac cttcctgggc catgcctggg tactgagraa cccagccctg 120
aatctggaca tcattttccc ttccagagca tagaatgcag ggggatccag ggaatgggtt 180
aacagaagag gaagctggwt caaggagacc tttgcgtacc aggtgaaggt gtttgaactt 240
tgttcttgca ggcaggcaga gcacggaca 269

```

<210> 209

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

&lt;400&gt; 209

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cgactggttg ttaccgagga agatggcggc gccagaccgc aggcgctagg gaagatcgca 60
ccgcggacgc ccgctgagct tggcgacagg gccgaccagg agctggtgac tgccctcatg 120
tgtgatttgc ggcggccagc ggcagggtgg atgatggact tggcctacgt ctgtgagtgg 180
gagaaatggt ccaagagcac ccactgccc tgggtgcccc tggcctgcgc ctggctcctgc 240
cgaaatctca tcgccttcac catggacctg cgcacgantg accaggacct gacccgcatg 300
atccacatcc tggacacgga gcacccctgg gacctgcact cgatcccctc agagcaccac 360
gaggccatca cctgcctgga gtgggaccag tcaggctccc ggctcctgtc agcagatgcc 420
gacgggcaga tcaagtgtg gagcatggcg gaccacctgg ctaatagctg ggagagctca 480
gtgggcagcc tagtggagg ggacccatt gtggccctgt cctggctgca caatggtgtg 540
aaactggccc tgcacgtgga gaagtcggc gcctccagct tcggggagaa gttctcccga 600
gtcaagttct caccygttct cacgctgttc ggcggcaagc catggagggc tggatcgcg 660
tgacggtcag cggcctggtc accgtgtccc tgctgwaasc agcgggcagg tgctgacgtc 720
caccgagagc tntt 734
```

&lt;210&gt; 210

&lt;211&gt; 658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (561)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (567)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (577)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (580)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (636)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (654)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 210

```

cccgccagcg ttgaggttta tcacgacagc ctgtgccgaa aaatctggcg tgaggatgat 60
aaatggcatg tcatttttcg tgcagacggc tgggagcaac atattaccgc ccgctatctg 120
gtcggtgccg atggcgcaaa ctcgatggtg cggcgacatc tctaccgga tcatcaaadc 180
cgtaaatatg tcgctatcca gcagtgggtc gcgagaaaac atccggtgcc gttctactcc 240
tgcattcttg ataattcgat aactaactgt tattcatgga gtatcagcaa agacggktat 300
tttatctttg gcggtgccta tccaatggaa agacggtcag acgsgtttca sgacgcttra 360
agagaaaaatg agcgcccttc agttccagtt tggtaagacg gtgaaaagcg aaaaatgcac 420
gggtgctgtt tccctcgcg cggcaggatt ttgtctgcgg taaggacaac gcctttcttg 480
attggtgaac ggcgggattt atcagcgcca gctcgctgga agggattagc tatgcgctgg 540
atagcacaga catttctgcg ntctgtntac tgaacancn gagaagctca ataccgttac 600
tggcgcgcca cccgaaactg ggttaaactc ttcgnaaga tataaaaagc catnctga 658

```

<210> 211

<211> 204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 211

```

attcggagag ccatctctga cagttagagc cgatatcact ggaagatatt caatcgtctc 60
tatgcttacg acctgcagat acagtctgtt nttncacatg aagaaagtct caagttgctg 120
aagactgaat tgtaagaaaa atctccagcc cttctgtctg cagcttgaga cttgaaccag 180
agagtgtgag agctgctgtt ggag                                     204

```

<210> 212

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<400> 212

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ttccgcagcc ttgccccagc ccaactcccc tctcacccta ccacagagca tggtaaatac 60
caagcccagc aagacggagg aggactcaga ggaggtaggg gagcagaaac acaagacctt 120
cgtggaaaaa tacgagaaac agatcaagca ctttgccatg cttcgccgct gggatgacag 180
ccaaaagtac ctgtcagaca acgtccacct ggtgtgcgag gagacagcca attacctggg 240
catttggtgc attgacctag aggtggagga gaaatgtgca ctcattggagc aggtggccca 300
ccagacaatc gtcattgcaat ttatcttggg gctggccaag agcctaaagg tggacccccg 360
ggcctgcttc cggcagttct tctaatagat taagacagcc gatcgccagt acatggaggg 420

```

```

cttcaacgac gagctggaag ccttcaagga gcgtgtgcgg ggccgtgcc a gctgcgcat 480
cgagaaggcc atgaaggagt acgaggagga ggagcgcaag aagcggtcgg gccccggcgg 540
cctggacccc gtcgaggtct acgagtcctt ccctgaggaa ctccagaagt gcttcgatgt 600
gaaggacgtg cagatgctgc aggacgcat cagcaagatg gacccaccg acgcaaagta 660
ccacatgcag cgctgcattg actctggcct ctgggtcccc aactctaagg ccagcgaggc 720
caaggaggga gaggaggcag gtcctgggga cccattactg gaagctgttc ccaagacggg 780
cgatgagaag gatgtcagtg tgtgacctgc cccagctacc accgccacct gcttcaggc 840
ccctatgtgc cccttttcag aaaacagata gatgccatct cgcccgtcc tgacttcctc 900
tacttgcgct gctcggccca gcctgggggg cccgcccagc cctccctggc ctctccactg 960
tctccactct ccagcgccca ttcaagtctc tgctttgagt caaggggctt cactgcctgc 1020
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gctgggtctac caggtagtgt gggagggtcc ccagccaagg ggccggctct cgtcactggg 1140
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ccaataaaag atttcagatg cnaaaaaaaa aaaaaaaa aaaaaaaa aaaacaaaaa 1260
aaaaaaaaa g 1271

```

<210> 213

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (991)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<400> 213

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cggacgcgtg ggcgagcgtg atagccaaca ggaaccggga gcgggggtccc gggactggga 60
agaaacggcg gccgggaggg ggctccgggg accatggggc tctgacat tctgaagaag 120
atgaagcaga aagagcggga gctgcgactg ctcatgcttg gcctggacaa tgtggaaag 180
acaacatcc tgaagaagt caatggggag gacatcgaca ccactcccc aacgtgggc 240
ttcaacatca agaccctgga gcaccgagga ttcaagctga acatctggga tgtgggtggc 300
cagaagtccc tgcggtccta ctggcggaac tactttgaga gcaccgatgg cctcatctgg 360
gtagtggaca gcgcagaccg ccagcgcatg caggactgcc agcgggagct ccagagcctg 420
ctgggtggagg agcgcctggc cggagcaacc ctccatctct ttgctaataa gcaggacctg 480
cctggagcac tgtcctctaa cgccatccgc gaggycctgg agctggactc catccgcagc 540
caccactggg gcatccaggg ctgcagcgc gtcaccgggg agaacctgct gccgggcac 600
gactggctcc tggatgacat ttccagccgc attttcacag ctgactgaac cactccagat 660
gccccccacc tagcagtcca ggtccctcaa ccttcaccaa aactaccca tgggggggtg 720
ggagtacgcc ggccaaacta acactcccc tctccaccc cagcctgctg ctgctactgc 780
tgcccgctgc tgctctgtgg ccaccgggt cccatggcgg gagggtgtg ccctggctgt 840

```

162

```

ctctctggct cctgacctgg ccttttgcta ccataccaag aagagagggc tgggcgggga 900
ggagctgcta ctgctgctac cgaggctgtg ggcctcatcc ttcactcagt tgtgaaataa 960
accgctcctt gccccgmaaa aaaaaaaaaa naaaaaaaaa aaaaaanccc ggggggggnc 1020
ccgga                                           1025

```

&lt;210&gt; 214

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (332)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 214

```

ggcacgagtr aactatatac ctcaaagaat tagaaaaaga agaacaaact aagctcaaag 60
ttagcagaag gaaggaaata gtaaataatta cagcagaagt aaagtagagg ctagaaaaat 120
aataaaaaag atcaacaaaaa tgggtatttgt tctcatacta tgataaagac atacttgaga 180
accgcattat ttatggggaa aagaagtta attgactcac agttccacag gctgtacagg 240
aggcatggct tagggaggcc tcagggaac ttagratcca tggtggaagg tgkargagga 300
agcatgcacc atcttcactg gccagagcag gnggagagag agcaaatttg g          351

```

&lt;210&gt; 215

&lt;211&gt; 1087

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1075)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 215

```

gtcggagtcc cagtccaccc gccacgcccg agcagggcct gtccgccttc tacctctcct 60
actttgacat gctgtaccct gaggacagca gctgggcagc caaggcccct ggggccagca 120
gtcgggagga gccacctgag gagcctgagc agtgcccggc cattgacagc caagcccag 180
cgggcagcct ggacttggtg cccggcgggc tgaccttga ggagcactcg ctggagcagg 240
tgcagtccat ggtggtgggc gaagtgtca aggacatcga gacggcctgc aagctgtca 300
acatcaccgc agatcccatg gactggagcc ccagcaatgt gcagaagtgg ctctgttga 360
cagagcacca ataccggctg ccccccattg gcaaggcctt ccaggagctg gcgggcaagg 420
agctgtgctg catgtcgag gagcagttcc gccagcgctc gccctgggt ggggatgtgc 480
tgacgcccc cctggacatc tggaagtca cggcctggat gaaagagcgg acttcacctg 540
gggcgattca ctactgtgcc tcgaccagtg aggagagctg gaccgacagc gaggtggact 600
catcatgctc cgggcagccc atccacctgt ggcagttcct caaggagtgt ctactcaagc 660
cccacagcta tggccgcttc attaggtggc tcaacaagga gaagggcac ttcaaaattg 720
aggactcagc ccagggtggc cggctgtrgg gcaccgcaa gaaccgtccc gccatgaact 780
acgacaagct gagccgctcc atccgscagt attacaagaa gggcatcatc cggagccag 840
acatctycca gcgscctcgtc taccagttcg tgcacccat ctgagtgcct ggcccagggc 900
ctgaaacccg cctcagggg cctctctcct gcctgccctg cctcagccag gccctgagat 960
gggggaaaac ggcagtcctg tctgctgctc tgaccttcag agcccaaggt caaggagggg 1020

```

caaccaactg cccaggggga tatgggtcct cttggggcct tcgggaccct ggggncaagg 1080  
ggcttttc 1087

<210> 216

<211> 1977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1873)

<223> n equals a,t,g, or c

<400> 216

cgcctgcngg naccgggtccg gaattcccgg gtcgacccac gcgtccggca gaagaagagg 60  
aggaggaaga tgaggaagag gaggaagaag aggaggagga ggaggaagaa gagcctcagc 120  
agcaggggca gggagagaag tcagccacgc cctcacggaa gattctggac cctaactctg 180  
gggagccagc tcccggtgctg tctctcccac ctccctgcaga cgtctccacc ttccctggctt 240  
ttccctctcc agagaagctg ctgcgcctag ggcccaagag ctccgtgctg atagcccagc 300  
agactgacac gtctgacccc gagaaggtgg tctctgcctt cctaaagggtg tcatctgtgt 360  
tcaaggacga agctactgtg aggatggcag tgcaggatgc agtagatgcc ctgatgcaga 420  
aggctttcaa ctctcgtcc ttcaactcca acaccttctt caccaggctc ctctgtgcaca 480  
tgggtctgct caagagtga gacaaggta aggccattgc caacctgtac ggccccctga 540  
tggcgctgaa ccacatggtg cagcaggact atttcccaa ggcccttgca cccctgtgc 600  
tggcgctcgt gaccaagccc aacagcgccc tggaaatctg ctcttcgccc cgccacagtc 660  
tgctgcagac gctgtacaag gtctagactc aaagcctctc ccatcccttg gacctggacca 720  
gtgagctggg gagggactcg gatgaactga ggcgcagcct acgccattgc cttggacagg 780  
actctggcca caggcagggc ggggtctgtg cccatgtgtc ctgtcagtc cctgagtatg 840  
tgtgtgggtg tggcgcatgt gcaggctgtg gcctcctgtc gggatttggt ttttaacgtc 900  
ttctgctggc ccagccctgc tctgttgttg ggagttggcc cccaggggaa agggctgtga 960  
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ctggggctgc ttctcgtcac caagccctgg tctgcggca gctgtcacc ctaccatcca 1200  
taccactgtg ctgaccgctc agcctgaaga gcagagaatg ccatgggtgg gactgtgggg 1260  
gtcggatcgt ggggttgttg gcagagggca accctgggccc ccacaccgtg tggacaggca 1320  
gacaccagat tgtccaggag caggagctgc tgggactgcg ctggccccgg acctagtggg 1380  
ccttctcctg gctgctgaga tgtcgtctgt gactggcctg gctggagggg gagtgttgac 1440  
aaccctaaagc tgctctccag tctggggagg gagaggcagg gtccccaatg tccgagctgc 1500  
atctggacgc tgctcttaaa ggacctcctg gggcagggga gcggtagggg ctggactggg 1560  
cagatgctgt atgacctccc tgagcaccgc tgactgcccc atgctttccc ctttgtgtc 1620

```

tgtgtgtgtc tggctgtgcc cgggggcttc acaaataaag tcgtgtggca gcttcagaga 1680
ctcagaaact ctcactgaaa gcgggatagt ctcggggggcc gttgtacgtg gaggcccacc 1740
tcggcagagc atgcggcccc gcagcagctc gtggggcagt cagccctgca gaagggcccg 1800
gcctcggcct caggcactac ctgggaagtg gcagtcctga gtggggggccc attttcctgc 1860
ctggscacac ctnaccagc accctgcctt tgggctgcag ctcgcttggc ttctgcgttg 1920
ctccttcact atggaagcca cctcccttgg gatcctttgc tccactgcca catatgt 1977

```

&lt;210&gt; 217

&lt;211&gt; 2815

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

```

aattcccggg tcgacccacg cgtccggggc cccgcgtctg agcccagagg gctgtggagt 60
gtcccggccg gccccgagca ccccgcgct gtccgggtccc cgctccggtc ttccgctttg 120
gcttccaaact agttaaatgc ccttgagcgc ggggtttccgc ggcccggctc ttccgccccg 180
cggcgcgagt tgagccggtt ccccgcgctg tccgcgcggg cgctccgaca gcggctctgc 240
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tgtagctaca tagttatctg tgtacatcca cgctggggca tttttctcct gcttaatgag 360
gacttgactc gggagcaagt gtgaatcatt gccggggctg ggaaaggagg aaggcgcatt 420
taacccccct ccacccctct ccatgtccgt gtgtcactcg gctcgggtcc cctggcgcg 480
ccggctcctg ggtgctgct gctgttgacg acgacgacga cgacgggggc tgctctgct 540
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cagaacctcg gcctgaccgg cactttggct ccaaaataac tttatttttg ggggagaaag 660
cacatcacga accagtcaaa atcgtgggtt atttctgtaa cgtgaagact tctgctcttt 720
tttctttgtt tgtttttttc gtaaacatct ggggtgtatat caaacggcaa gatgtccagt 780
aatgtcccgg cgatatgat aaatttgccg ctcatcttgg taagcggaaa aacaaaagag 840
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ccaatggact gggaagaaga gcaggtcagc agtccaaata ttctacgact tatttatcaa 960
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aatcgtgaga agactggaga gagtaattgt tgtgtaatcc tgtaaacact gtctgcctag 1140
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tcagaaaccg ttcagaacag tctgcctgta aacacatgga actgaattac cacatgaaca 1260
ctgtcatctt ttctcatgaa agtaaaaaga accaagaaca tttttcactc tgatttttta 1320
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ccaggggaaa agttaacaag ttatctttcg tagcagaac cattttgctg ccacaaaatt 1440
ttcatcatca gaactaataa atcaagtgtt ccaaatacaa tttgactaa aaagattggc 1500
attattttcc tcatcagcag aatttataac agtgtgtggt atctagaaat acttatatat 1560
acaattccac actggaagac actcagcaat taatgaagtt aattactggg ccaacttgag 1620
aggaaaaaat ggaaaagaaa ctaaaatgtt ggggtgaattc taccaaagtc agccgtgggtg 1680
gctgcactgg cacagaatac taaactgagt gtgactatct tctactgaac aaatgaaaaa 1740
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taagacatgc actcttgagt cctacagtaa ctgagtgttt gtttagacag cacaagaagg 1860
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cattattgtg crgaatatatt agaaaacctc attgatcaat tttatgtatt tgaatatcag 1980
caaattgaaa ttttcataa ttatcattaa tttgtaacca catccagtgt catgcttact 2040
ccttagagtt cagatgaatt cttaaaatta aaaaaaaact ccatagtact aattttgktt 2100
ctttatatag ttgcggtttg atattagtgc ttgcaattgt attaaagtca aaagctgatt 2160
tttatggcat acacaagaat gccacttttt cttttatttc ataccaataa tttaaagatt 2220
gatatgctaa aaacaatttg cacagcacta aagcatgagc tactttcatc taaacctgta 2280

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aaaatatgaa agatttttat attttttcac tgggaagaaa ttcttcctgg atgaaattac 2340
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atatagattg gcgcgtagta tatagaacaa tattccatat aaataagttt agcctttata 2460
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aacattaaat gtaaatggtt tcaaatggtc agcgttggtt aaatgtaatc atgttatttt 2580
attcattggt aatgctttga tgaaaaggct ttatatgcag tagatctacg aaaatattgt 2640
tcatactgat cagaattaaa tttgtataga gcagagtttt aaaatgaatg taaatagcac 2700
taaacgtttt ctttctgcaa cctgtactta cagattcttc ctgtaaacta aataaaaaaa 2760
aatgatagt gcaaaaaaaa aaaaaaaggg cggccgctcg cgatctagaa ctagt 2815
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<210> 218

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1643)

<223> n equals a,t,g, or c

<400> 218

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gaggctgagc gtgatctga acaccacagc ccctgtactt gggttgccct ttgtccctga 1440
acttcgttgt accagtgcac ggagagaaaa ttttgccttc ttgtcttaga gttgtgtgta 1500
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<210> 219  
<211> 478  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (415)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (452)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (469)  
<223> n equals a,t,g, or c

<400> 219  
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gaaagtgcag gaggtgaaag tcagttcttc ggtgctcaaa gctgccgccc atcactatgg 180  
agttcagtgat gacaagccca acaaggagtt catgctctgc cgtgggaag aaaaagacc 240  
ccggcggtgt ttagaggaag gcaagctcgt caacaaktgt gctctggayt tcttcaggca 300  
gataaagctt tcaactgtgca gagcctttta cagactattg gacntgcac gactactccg 360  
gcctgcagtg ttttcgtcgc tgccgcaaac agcaggccaa tttgacgatg tgtgnggggc 420  
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<210> 220  
<211> 832  
<212> DNA  
<213> Homo sapiens

<400> 220  
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cagccctcc cttgtgtttc aaccaatcgg aagtgaattt aactagatgt agtaaccttt 180  
ttttctttta cttctaaaaa agttacagtt tactaataaa gttaagtctg gttctgtcct 240  
agaggaaata aattcactat taattcatgt cttaagttac ttgggttaaa acactttcag 300  
ccacccagat taattaaagt ggagcagtg agccctggc tgggagatgg cctccagagg 360

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tcctctgtgg tcaactgact actgctgata gcagtggagt aagactgcac agttgtcggg 540
agggtgagtt aaagtcttaa tctatgcatt cagagaaata tttttatatg ctttgtgtaa 600
tttataacaa ggattttttt tttagctttg ttaactgtga attcaccctt cctcctccac 660
tgcataattt aagcatgtgt tcacactgtg tgtaaacatt cactgaagat tttttctttg 720
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<210> 221

<211> 1892

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1892)

<223> n equals a,t,g, or c

<400> 221

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atggcggtgg ctgggcctat gacggccctt gcagtggagt ctgtactggc tgcgggggac 120
cctgctcatt tgaaaatctg acatcagctg ggcagtcgcc cccctctctc tttctctcct 180
ctactctgac acagcactta gcacctgaat ctctgtttct ctcccaggga ccctccattt 240
tccatatcca ggaaaatgtg atgcgccaca ggtatcagcg tctggwtcgc cacttcacgt 300
tttagccaca agtgactcag tggaagatcc agagtcaaca gaggctcgtc aggaagatgt 360
ctacagaaaa ggtagaccaa aaggaggaaag ctggggaaaa agaggtgtgc ggagaccaga 420
tcaaaggacc ggacaaagag gaggaaccac cagctgctgc atcccatggc caggggtggc 480
gtccagggtg cagagcagct aggaacgcaa ggcctgaacc tggggccaga caccctgctc 540
tcccgggccat ggtcaacgac cctccagtac ctgccttact gtggggccag gaggtggggc 600
aagtcttggc aggccgtgcc cgcagctgct gctgcagttt ggggtgctct tctgcacat 660
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gacagtcagc cacctcagcc ctgtgcattt ctactacagg accgactgtg attcctccac 780
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa an

1892

&lt;210&gt; 222

&lt;211&gt; 868

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (23)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (829)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (860)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 222

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cccatgatgc ccaaggccat ccaagggcat ctgaagacca acccagctct ggaaaacctg 120  
ttacttcata tccgggggaa tgtggctttg tgttcaccaa ggaggcctca cttgagatca 180  
gggacatgct gctggccaat aaggtgccag ctgccgcccg tgctggtgcc atagccccat 240  
gtgaggtcac tgtgccagcc cagaacactg gtctggggcc cgagaagacc tccttcttcc 300  
aggcttttagg catcaccact aaaatctcca gaggaacctg tgaaatcctg agtgatgtgc 360  
agctgattaa gaccggagac aaagtgggag ccagtgaagc cacactgctg aacatgctga 420  
acatctcccc cttctccttt gggtgatca tccagcaggt gtttgacaat ggcagcatct 480  
acaaccctga agtgcttgac atcacagagg aaactctgca ttctcgcttc ctggaggggtg 540  
tccgcaatgt tgccagcgta tgtctgcaga taggttaccc aactgtggca tcagtgtccc 600  
attctatcat caatggatac aagcgggtcc tggctttgtc tgtggagact gattacacct 660  
ttccacttgc tgaaaaggtc aaggccttct tggctgatcc atctgcattt gtggctgctg 720  
cccctgtggc cgtgccacc actgctgcac ctgctgctgc tgcagcccca gccaaagttg 780

aagcaaagga agagtcggag gaawcggatg agagkattkt camttcgana atcagcaaaa 840  
gcaacaattc cagccagttt attgtgaa 868

<210> 223

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1516)

<223> n equals a,t,g, or c

<400> 223

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cgatggggat ggaagaggag atgcctgtga tgatgacatg gatggagatg gaataaaaaa 180  
cattctggac aactgccc aaatttccaa tcgtgaccaa cgggacaagg atggtgatgg 240  
tgtgggggat gcctgtgaca gttgtcctga tgtcagcaac cctaaccagt ctgatgtgga 300  
taatgatctg gttggggact cctgtgacac caatcaggac agtgatggag atgggcacca 360  
ggacagcaca gacaactgcc ccaccgtcat taacagtgcc cagctggaca ccgataagga 420  
tggaattggt gacgagtgtg atgatgatga tgacaatgat ggtatcccag acctggtgcc 480  
ccctggacca gacaactgcc ggctggtccc caaccagcc caggaggata gcaacagcga 540  
cggagtggga gacatctgtg agtctgactt tgaccaggac caggtcatcg atcggatcga 600  
cgtctgccca gagaacgcag aggtcaccct gaccgacttc agggcttacc agaccgtggt 660  
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tggaattgac ttgaaggga ccttccatgt gaatacccag acagatgatg actatgcagg 840  
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gcagacatat tggaagcca cccattccg agcagttgca gaacctggca ttcagctcaa 960  
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atatttatgaa ggctctgagt tgggtggctga ctctggcgctc accatagaca ccacaatgcg 1200
tgagagccga cttggcggtt tctgcttctc tcaagaaaac atcatctggt ccaacctcaa 1260
gtatcgctgc aatgacacca tccctgagga cttccaagag tttcaaacc agaatttcga 1320
ccgcttcgat aattaaacca aggaagcaat ctgtaactgc ttttcggaac actaaaacca 1380
tatatatatt aacttcaatt ttcttttagct tttaaccaacc caaatatata aaaacgtttt 1440
atgtgaatgt ggcaataaag gagaagagat cattttttaa aaaaaaaaaa aanttcnggg 1500
gggcccggnnc caattn 1516

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<210> 224

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1303)

<223> n equals a,t,g, or c

<400> 224

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gctggacgag gtcattggctg ccgctgenst tacaagcctg tccaccagcc ctctccttct 180
ggggggccca gttgcagcct tcagcccaga gcctggcctg gagccctgga aggaggccct 240
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ggccagtga cagtcctctc cgtccacccc gtcaccccca ctgccccccg aggcagccca 360
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gtgtctgtgg aagagctgcg ggaaggtgct gagcacggcg tcggcgatgc agagacacat 480
ccgctggtg cacctgggga ggcaggcaga gcctgatcag agtgatggtg aggaggactt 540
ctactacaca gagctggatg ttggtgtgga cacgctgacc gacgggctgt ccagcctgac 600

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171

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tccagtgtcc cccacggcct ccatgccgcc tgccttcccc cgcttggagc tgccagagct 660
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ccctgtcctg agcaccgttg ctaacccccca gtccgtgtcac agtgaccgtg tctaccaggg 780
ctgcctgacg cccgcccgc tggagccgca gcccacggag gtcggagcct gcccaccgcg 840
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ttcaccagct gcagggtctg cttttacttg ggggtggggg gcggggctga ccctgaaccc 1140
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tttttgact aaaagccaaa aaaaacggg gttcccttta gncccaagg ggccttgggg 1260
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&lt;210&gt; 225

&lt;211&gt; 584

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (486)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (542)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (562)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 225

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tcgaccacg cgtccggcgt cctctcggag cccgtgcggg cacttagcca agatgcctga 60
ggaaacccag acccaagacc aaccgatgga ggaggaggag gttgagacgt tcgcctttca 120
ggcagaaaty gcscagttga tgcrytgat catcaayacy ttctactcga acaargagat 180
cttcttgceg gactgatctc caactcgtcc gacgctcygg acaaaatccg atacgagagc 240
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aagcaggacc ggaccctcac catcgtggga taccgggatc gcatgaccaa ggccgacctg 360
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gcgggcgcag atatttcyat gattggccag ttcggggtcg ggttctattc ggcctacttg 480
gtggcnagaa ggtgacggtg ataccaagc acaacgatga cgagcattac gcctgggagt 540
cntccgcagg ggctcgttca angttccgca ttgacacagt gaac 584

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&lt;210&gt; 226

&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
 <222> (34)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (498)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (514)  
 <223> n equals a,t,g, or c

<400> 226  
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 gaccatgcca aagcacagtg tgatctcctg gggcccggca tggctgacat gtgcaagaac 180  
 tatatcaacc agtattcgga cattgccgtc cagatgatga tgcacatgca acccaaagag 240  
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 aaggacacgg tccaggcaaa gaccagtgtt agctgtggag atatgagagt tacgtggttg 420  
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<210> 227  
 <211> 2377  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (2369)  
 <223> n equals a,t,g, or c

<400> 227  
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 cgtgttaatg taagaatgac tcctatcatt aggagtgtc ctccggagggt actcaccttt 420  
 gggagtaata ctgaagagag gggctctgcag aaaggatgtg tatgaagctt agataataat 480  
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 gccagtattg cagattttaa ctgatttggc tgatcctcca gggaccagtt tctgtgggag 660  
 tgtattggar caggtttgtc tttaaatgtt aaagatgcac taccctctta gagaaacaat 720  
 cagtcaact attgtgttac tgactgggac ttcatttctt aatggatgtg gcaaaagaat 780  
 tgcaataaga agcagtgaac atttggaacc ccaaaagaaa gttacaggta ttgactggg 840  
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aaaaaaaaaa aaaaaaaaaa aaaaaaaang aaaaaag 2377

```

&lt;210&gt; 228

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

```

aatacatgcc aaatggatca ttaaatgaac tcctacatag gaaaactgaa tctcctgatg 60
ttgcttgccc attgagattt cgcacccctg atgaaattgc ccttggtgta aattacctgc 120
acaatatgac tcctccttta cttcatcatg acttgaagac tcagaatata ttattggaca 180
atgaatttca tgttaagatt gcagattttg gtttatcaaa gtggcgcatg atgtccctct 240
cacagtcacg aagtagcaaa tctgcaccag aaggaggggac aattatctat atgccacctg 300
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cagttatcac atgggaagtg ktatccagaa aacagccttt tgaagatgac accaatcctt 420
tgcagataat gtatagtgtg tcacaaggac attggactgg tat 463

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&lt;210&gt; 229

&lt;211&gt; 1232

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

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caggtgagca tctgaacaag gggcagtcgg ccagggtggg cttgcggggag tccccacctt 60
gacctctctc ccttccagct gcccagagcc cagaccaagc atggacgccg tggatgccac 120
catggagaaa ctccgggcac agtgccctgt ccgcggggcc tcgggcatcc agggcctggc 180
caggtttttc cgccaactag accgggacgg gagcagatcc ctggacgctg atgagttccg 240

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gcagggtctg gccaaactcg ggctgggtgct ggaccaggcg gaggcagagg gtgtgtgcag 300
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ataaaaaatg caggtaaacac gtcaaaaaaa aa 1232

```

&lt;210&gt; 230

&lt;211&gt; 1063

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

```

gcccacgcgt ccgctcagcg gctgccaaca gatcatgagc catcagctcc tctggggcca 60
gctataggac aacagaactc tcacaaaagg accagacaca gtgggcacca tgggacagt 120
tcggtcagcc aacgcagagg atgctcagga attcagtgat gtggagagg ccattgagac 180
cctcatcaag aactttcacc agtactccgt ggagggtggg aaggagagc tgacccttc 240
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aaacttgtct cctctaccac caccctgtac ctagcctgc acctgtccw atctctgcaa 540
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atttgattaa taaaaaaaaa tgaaaaaagt gaaaaaaaaa aaa 1063

```

&lt;210&gt; 231

&lt;211&gt; 1063

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1063)

<223> n equals a,t,g, or c

<400> 231

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gagtccttag acggggcgaa aacgggaaaa ggggccttaa ctggggcacc tggctccttt 180
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cctataatgc aagaaccaag gcgagtcacg ccctgtctgg gcaaaagagg agtaaagacc 300
cctcagctgc agcccggcag cgcattccta ccagggtcc gccgccagag ctttcccgcg 360
cggtcggata gttactactac tgtccgggac ttcctagccg tgccgcggac catctcaagt 420
gcttccgccca cactcatcat ggcggtggca gtaagtcact tccgcccggg accggaartg 480
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa nan 1063

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<210> 232

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

&lt;400&gt; 232

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tccagcacca cgccaagcct aacatcttcc acaaggatcc cgatgtgaac atgctgcacg 240
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aggctctctt aagatgttca agggcccaag gccg                                     1474

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&lt;210&gt; 233

&lt;211&gt; 1782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (8)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (31)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (34)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 233

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caaagcctgc tgggtgagca ccttgctcat tatactggwt ctgaatttac ctctttgaag 180
tttctagatg caccacttcc tgctcacagc ctggaattcg gttaacaagt cagtgtcaac 240
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<210> 234

<211> 2208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

&lt;222&gt; (2189)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2202)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 234

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acagggtctg gagccaagct cagagaacgc caatgacacc atcattttgc gcaacctgaa 60
cccacacagc accatggatt ccatcctggg ggccctggca ccctacgcgg tgctgtcctc 120
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&lt;210&gt; 235

&lt;211&gt; 2580

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
<221> misc feature  
<222> (1)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (3)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (2558)  
<223> n equals a,t,g, or c

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<210> 236

<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3001)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3008)

<223> n equals a,t,g, or c

<400> 236

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```

&lt;210&gt; 237

&lt;211&gt; 877

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (834)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (854)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 237

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<210> 238

<211> 3039

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3039)

<223> n equals a,t,g, or c

<400> 238

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aaaaaaaaaa aaaaaaaaaa aaccccgggg gggggcccn 3039

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&lt;210&gt; 239

&lt;211&gt; 1992

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (12)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (13)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

<221> misc feature  
<222> (29)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (87)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1989)  
<223> n equals a,t,g, or c

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aaaaaaaaanc cc 1992

<210> 240

<211> 497

<212> DNA

<213> Homo sapiens

<220>

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<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 240

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gcaggagacg caggcatggc cggtagctg actcctgagg aggaggccca gtacaaaaag 180
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gttgacrgcg acgcgacgag cgaaatcagc ttccaggagt tcctgacggc ggcrargaag 360
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<210> 241

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<400> 241

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ccaraaagca ggcaggacgt gatggatatt gtatttatag agcaactttc ggtaatcacc 240
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tggcgtgggg ntaacc                                     316

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<210> 242

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 242

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ctattatgat cttatctcag gagcatctca gtgggagaaa cctgaaggat ttcaaggaga 240
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gtttcttagg tttttgtaga gttttgctaa gcaactttat ttacaaatac tccactccct 360
ccacccccaa actgtgtcct ttttttccc ataatgcttt tgtagaagg ctggatggag 420
atgaaatagt gatctctggc tgggtgcagt ggctcatgcc tgtaatccca gcactttggg 480

```

```

aggctgaggc atgtggatca caaggtcagg agttaaagac cagcctggcc aagatgggtga 540
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atcccagcta ctcaggaggc tgagtcaggg gaatcactgg gacctggggc ggccagagggt 660
aacagtgagc cgagattgca ccaccgcact ccagcctgga taacaaagta agactccgtc 720
tcaaaaaaaaa aaaaaaaaaa agggcgggccg ctctagagga tccctcgagg ggcccaagct 780
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<210> 243

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 243

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tacactgctt ataatactaa tgtttacaga tatgtttctg tttataacca tataatacat 720
tggctttgtc atattagttt tttttgcaag tagttatgta aaagagatag ataataaaat 780
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<210> 244

<211> 2853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2665)

<223> n equals a,t,g, or c

<400> 244

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ccaaagctgc cttcaagcgc ttcaaaactc tacggcacc caacatcctg gcttacatcg 180
atggactgga gacagaaaaa tgccctccacg tcgtgacaga ggctgtgacc ccgttgggaa 240
tatacctcaa ggcgagagtg gaggctgggtg gcctgaagga gctggagatc tcctgggggc 300
tacaccagat cgtgaaagcc ctcagcttcc tggtaacga ctgcagcctc atccacaaca 360
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actacatgta ttcggccccag ggcaacggtg ggggamctcc ccgcaaggga tccccgagct 480
tgagcagtat gaccccccg agttggctga cagcagtggc agagtgggtca gagagaagtg 540
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```

```

acgtgaacat caatttgctt cgaaagccaa gggtaaagag gcacgatytg atttatcagt 2640
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cgctaaccgg ggaggggggc cggtaggggc gcctcgggty tcaaggcgcc gggaggggtct 2760
wgcggccctg aaggctccctk ggtccgagcc acaagtcggg gcagaagtga ggccgagctc 2820
gcggaaatcc ctcaagtgat caccgaggtc tgg                                     2853

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&lt;210&gt; 245

&lt;211&gt; 1197

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (218)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1193)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 245

```

gctcgtgccg cggcctgctt ctacctggct gagatcacgc tggccctggg ccattctccac 60
tcccagggca tcatctaccg ggacctcaag cccgagaaca tcatgctcag cagccagggc 120
cacatcaaac tgaccgactt trgactctgc aaggagtcta tccatgaggg cgcctgcact 180
cacaccttct gcggcaccat tgagtacatg gccctgnag attctggtgc gcagtggcca 240
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gccggtggac agtcctgatg acacagccct cagcgagagt gcccaaccagg ccttcctggg 660
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caagctgcgc tcaccagggc gcctcaacag tagcccccg gccccgtca gccccctcaa 780
gttctcccct tttgaggggt ttcggcccag cccagcctg ccggagccca cggagctacc 840
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tgtgtctgct ggggcagctg tgcccctgaa tcatgggcac ggaggccgcc cgccrmgcc 1140
cgcgctcaac tgctcccgtg gaagattaaa gggctgaatc atgaaaaaaa aaaaaaa 1197

```

&lt;210&gt; 246

&lt;211&gt; 848

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 246

```

ggcacgagga gagagacctg gcggccgggc agcatggcgg ggctggagct cttgtcggac 60
cagggctacc gggtagcagg gcggcgcgcc ggggagctgc gcaagatcca ggcgcggatg 120

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ccacatgggg accgtaagtc ctgtgagatg ggcctgcagc tccgccagac ttctgaagca 360
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ctgccagcct caggacagat tgcgctgctt gagatggatg cccggtgca cgaggaccac 660
ctggagcggg tggtggaggg tgctgccag gctgcccgag atgtgcacac cctcttagat 720
cgagtggtec ggcagcatgt gcgtgagggc tctatcttgc tgggggactg accaccagc 780
caccatgtc cagaataaaa cctcctctg cccamaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa 848
```

<210> 247

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1336)

<223> n equals a,t,g, or c

<400> 247

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gaagatgaag aagatgatgt gtcagagggc tctgaagtgc ccgagagtga ccgtcctgca 180
ggtgcccagc accaccagct taacggcgag cggggacctc agagtgccaa ggagagggtc 240
aaggagtga cccctgcgg accgcaccag ggccaggatg aagggcggg gccagcccg 300
ggcagcggca cccgccaggt gttctccatg gcagccatga acaaggagg gggaacagct 360
tctkttgcc cggggccaga ctccccgtcc cccgtgcctt tgccccagg caaaccagcc 420
ctacctgggg ccgacgggac cccctttggc tgcctcccg ggcgcaaaga gaagccatct 480
gatcccgtc agtggaccgt gatggatgtc gtcgaatatt ttactgaggc tggattcccg 540
gagcaggcga cagttttcca agagcaggaa attgatggca aatctttgct gctcatgcag 600
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ccccagagt ccaggagctg gacggggaca ccctcagccc tcataacaga ttccaaggag 840
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ttttctttct gttgattgtc gctccagctg gctgtattgc tttttaatat tgcaccgaag 1260
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kttttttaaa taaaatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320  
aaaaaaaaaa aaaaan 1336

<210> 248

<211> 1076

<212> DNA

<213> Homo sapiens

<400> 248

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tgtegccatc gacatgatgg actctcggac cagccagcag ctgcagctca ttgacgagca 180  
ggattcctac atccagagtc gggcagacac catgcagaac attgagtcga caattgttga 240  
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gaggatcgac gagaacgtgc taggagccca gctggacgtt gaggccgccc attcagagat 360  
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cagcctctcc caaaggaagc gttggcagca aaggagatg atgcccttac ccaccttctc 840  
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ctttcaccat gtgaggcagg gagccctgag cccttcagct gcctgcacaa cccctgacat 960  
tggtgctggt tgactcaatc tgccaaatgt gctgcagctc gttttctccc aattacagca 1020  
agactgtcag cctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1076

<210> 249

<211> 2425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 249

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accagtggcc atggttgcca gccttgtgcc tgccacccaa gccgggccag agggccmwcc 180  
gcaacgagtt cacaggcag tgccactgcs gtgccggctt tggagggcgg acttgttctg 240  
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ctcgtggaat agatacacct cagtgtcacc gcttcacagg tcaactgcagc tgccgcccag 360  
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ccatccctgc catgcatgct tcggggattg ggaccgagt gtgcaggact tggcagcccc 480  
tacacagcgc cttaggcagc gggcgagga gttgcaacag acgggtgtgc tgggtgcctt 540  
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```

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<210> 250

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<400> 250

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cgagcccagag ctggccgtgt cagcgccggg ccgcgtgcaa cctcatcggg gaacacacgg 180
actacaacca gggcctgggt ctgcctatgg ctctggagct catgacggtg ctggtgggca 240
gcccccgcaa gnatgggctg gtgtctctcc tcaccacctc tgagggtgcc gatgagcccc 300

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```

agcggctgca gtttccactg cccacagccc agcgcctcgt ggagcctggg actcctcggg 360
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gtgcagtggt ggtcagctca gtgcccctgg ggggtggcct gtccagctca gcatccttgg 480
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aacttgctgc tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaaa aagaaaaaaa aaaaaaaaaa

```

&lt;210&gt; 251

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

```

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cttgcctgtcc tccagctctg ctgaggagta cgtgggcctg tctgcaaacc agtgtgccgt 120
gccagccaag gacagggtgg actgcggcta ccccatgtc accccaagg agtgcaacaa 180
ccggggctgc tgccttgact ccaggatccc tggagtgcct tgggtgttca agcccctgca 240
ggaagcagaa tgcaccttct gaggcacctc cagctgcccc cggccggggg atgcgaggct 300
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cctttgctcc cggcaagcgc ttctgctgaa agtcatatc tggagcctga tgtcttaacg 420
aataaaggtc ccatgtctca cccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aagg

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&lt;210&gt; 252

&lt;211&gt; 2491

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (16)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2457)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 252

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tctagaggat ccaagcttac gaccccgga t 2491
```

&lt;210&gt; 253

&lt;211&gt; 1125

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

```

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attgctgccg tggagaagac tggaggaaac tcgaggaaga gggagaagcc gacaagtgtc 180
cgacgggcta ggaactgtcc tgcttgggtg ttagcgtttc ccgycgggcc agtaaggctg 240
agtgacccgg cgtgctacta ggagaaggac gtacggtcct gctagtagag gaatatgtcg 300
agtttctcta gggcgcccca gcaatgggcc acttttgcta gaatatggta tctcttagat 360
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&lt;210&gt; 254

&lt;211&gt; 1409

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

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<210> 255

<211> 490

<212> DNA

<213> Homo sapiens

<400> 255

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tcgccgccca ggccgcctgg gttccacttc cagcaacagc tcctgcagca gtaccgagtg 180  
ccccggggaa gccattcccc acccccagcgt tctccccaag gctgaccgcg gtcattgggtg 240  
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agagcactcg gaacctcccc aggcctccag cagcatgamc gcctgtggcc tggctcggga 360  
agccccgagg aagcagcccc gcggtcagtc cagcamagcc agcgtgggc ccccgctctg 420  
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<210> 256

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (931)

<223> n equals a,t,g, or c

<400> 256

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catcgatcgc aacatcacc acctgcagca ctgcacgttt gtggacgact gctctagctc 180  
caactgcctg tgcggccast tcagcatccg gtgctggtat gacaaggatg ggcgattgct 240  
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ttcttacctc ttcgacttag acaacaagga tggagagggt tactgcatag atgcccgtaa 540  
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aac                                     1233

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&lt;210&gt; 257

&lt;211&gt; 2404

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2372)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2385)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (2395)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 257

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cctgcgatcg aaggggactt gagactcacc ggccgcacgc catgaggggc ctgtgggtgc 180
tgggcctctg ctgcgtcctg ctgaccttcg ggtcggtcag agctgacgat gaagttagt 240
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<210> 258

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2069)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2071)

<223> n equals a,t,g, or c

<400> 258

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ctgcctatga caagttcaag gacaagagag tggggacaaa gggacttgat ttctcagatc 420
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<210> 259

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 259

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<210> 260

<211> 3712

<212> DNA

<213> Homo sapiens

<400> 260

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&lt;210&gt; 261

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (22)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 261

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202

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aaccgggact tgtactcggg gccgtgggct cggcccgac ccggcattcg gacttggact 780
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&lt;210&gt; 262

&lt;211&gt; 1905

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1266)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1791)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 262

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 ataaaccagc attgctgcca aaaaaaaaaa aaaaaaaaaa aaaaa 1905

<210> 263

<211> 1424

<212> DNA

<213> Homo sapiens

<400> 263

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<210> 264

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1196)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1229)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1284)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (1287)  
 <223> n equals a,t,g, or c

<400> 264  
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<210> 265  
 <211> 991  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature

&lt;222&gt; (421)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (966)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 265

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aaaaanaaaa aaaaaaaaaa aaaaaaaaaa a 991
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&lt;210&gt; 266

&lt;211&gt; 2320

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 266

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tccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2320

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&lt;210&gt; 267

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 267

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aattcggcac gaggattgcc ctaccccaag tcagtgtgtg gtggcccgaa ccttaggcaa 60
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agggatgacc cgctggttct cagctgcat atttcaggat agaggacagg agctggtaga 300
tgggtcctaaa gtctgcctgc aagcggctct gagggcttgg aatagctgca atgagtacat 360
gccagccggg atcatcgtgt accgsgtggtc gtaggagacg gccagytgaa aactactggtg 420
act 423

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&lt;210&gt; 268

&lt;211&gt; 1846

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1776)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1816)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1832)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 268

```

cgatttatca ggtttataat gcacttcagg agaaagttca ggcagtgtgt gcagatgttg 60
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aaagctgac ttttcnggat ataaaatgtt gnatgatgaa aaaaaa 1846

```

&lt;210&gt; 269

&lt;211&gt; 601

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (536)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 269

```
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gtctcactact ctacaccagt attgctgtcc tactcaggtc cttgactcca tgaagcttac 180
cccctcaggc aggctggcag agagcaggga agaggaggag gaggaggaga ctgaggaga 240
ggaagaggaa gacgctcacc agttctgctg tccggcctcc gagtgcagta gtccctcctc 300
tcggttaactg agaggacaag ggccattttc tatgcagaag caaaagcctt aaccagsccc 360
tccttcccc caccacccc cccgcagatt ccccatggg accctgtccc ctgcttcagg 420
aaccagatgg gcaagcatcg tgcccttccc tccccccacc ttcttcttgg aattcccatc 480
cccactgctg tctcctctgg actccagccc ctgaattaaa gaaactggag ccctangtcc 540
gactaaaatt tggganaaag aaacttggac ttggacttgg aactggatcc tcccgtaacc 600
g 601
```

<210> 270

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (876)

<223> n equals a,t,g, or c

<400> 270

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cttgctaagt tgagatcagc tagacctgct ttcttttctc ctcagtcttg catttccttc 180
aatacaagct gcagcctctt tcctcgtttc tagtctcaga aggaaggaga gggaagccat 240
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ttagagatgg agctccttcc ttttcctggt tcttaatttt tgtcttctca ttctgcttc 360
cctctcacc ctttgccagt tccaccaact agagtgaag acttcctagc catttcatta 420
aatctattct gtatccacca ggtggcagca tcttgtcata cgtgtcagga cttaggactg 480
cgggggttag gtttagatgtc acggaaaaag ctagtctgtg ggtcaggcgg caccaatgag 540
aaagggaatgc agaccctcca gatgtatcct tgggaaaagc agtaaaccaa ctaatattta 600
ttgaagacct actttgtcct ctacataggg tagcttctgt cagggaatct tggttcttcc 660
caagaaacac tgattttctt tcaggagagac ttcatgtgtt catttatttc caccacagca 720
gattttaaga aattataata tgtaatatat gatatttata aagagtatat ctaacgtgaa 780
taaattatga agcatactaa tgagtaccta tgaccataa cacatatata ttaaacatt 840
ttaaatacca aaaaaaaaaa aaaaaaaaaa aaaaanaaaa 880
```

<210> 271

<211> 2484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 271

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cttccagaat gaaggcgcc gacactcett cctgcctttg ctcaagcggc tccttcaccc 120
cgatcaagtt ccttcccatt tctccatctg ggggacccg aacgtgcaca tcctcagaga 180
agccctcctg gggntctcca attctagttt attgccccct cctatcgatc cccagcgcg 240
ctcatcgggc ctgtggacaa ggacaggttt gaagagagga ttccctggat cgcggaagg 300
ctgcaggaat ggcacagccc cttccgagga tgccaaagga gcccgggcaa aggaaagtgg 360
ccgtgccggg cctgcctacc actagatccc caccaccta tgactgctca gtcccgtct 420
cctaccacac ccaccttcc cggcccaagc cagcgcaccc cgctgactcc ctgcccagtc 480
caaactccaa ggctgggcaa ggcactgatc cactgctgga cagaccggg gcagcctctg 540
ggtgaacagc agcgtgtccg ccggcagcga accgagacca gcgagccgac catgcggctg 600
cacagacttc gtgcgcggct gancgcggtg ggcctgtggg yttctgtgctc ttctgtccg 660
gggccagggc caggactcag ccagtcccat ccggaccaca cacacggggc aggtgtctgg 720
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tgccaagcca cctctaggtc cgctgcgatt tgcaccccct gagccccctg aatcttggag 840
tggtgtgagg gatggaacca ccatccggc catgtgtcta caggacctca ccgagtgga 900
gtcagagttt cttagccagt tcaacatgac ctcccttcc gactccatgt ctgaggactg 960
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gctggctgac ttggagaacg tgggtgggt catcatccag taccgcctgg gtgtcctggg 1140
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agcacatttt cagtgttccc gggccctgt gtacttctac gagttccagc atcagcccag 1920
ctggctcaag aacatcaggc caccgcacat gaaggcagac catggtgatg agcttccctt 1980

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210

```

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gggtctgcc cactggccgc tgttcgacca ggaggagcaa tacctgcagc tgaacctaca 2160
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gtccatccat tcagaaagcw tttatttaag attttayttc agggmtwgat kggcccatat 2460
tgtaatttc cccgtttttt gggn                                     2484

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&lt;210&gt; 272

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 272

```

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ccactcaccg aggcactgag ggctctctgc cactgggggc tctttractt cgccttttgt 120
gccttggttg actgcraccg cctgtggsy cagaagtctt gtgacctcct tctcttcctg 180
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tctgccactg gggtcagga ccaagggagg cagcaccatg tccttctgtg ggacactgcc 540
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caaggtcaag aaatcccaca gtttgatgta ttaaagaaat gacttatttc tactcaaaat 660
aaatggcatt gaagtctttc ttttaaccctt tatgagttaa ttttaataata atgatctgag 720
acaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                                     751

```

&lt;210&gt; 273

&lt;211&gt; 3309

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3279)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 273

```

agaagcagga gggagaaggg cagacagggg tcggttgagc cagggtagaa accaagggga 60
gccagggtag aaaccaaggg gtcagggctg ggctggagga cagggtgag gtcctcccaa 120
aactgggccc atgtggtgtg acatccccac cagcctcaga tgagacgggc caggacgccc 180
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caaggcggag aatgaagggt gtggcggcag aggaggaggg cagcagctga gaggccaggg 300
acagggtgcc tcgccaagct gtctgaggtc tgtcccagggt gggccagggt gtgcaggtag 360
aacagggtga ggagaggggg tcggctcargc aggaggaggc tgtggctgca gaggctggcg 420
gagcttttag gtgttgagat ggggcagctc tgaatcctag accctggaat agcctgtccc 480
ttttctctgg gtctcgtggg ggagccatga tctgggctgc tctcttgggg acactgggtg 540
gtgggttacac agttgacctc tgcctggctc ccccttggtg caactcctgc ctccatcccc 600

```

```

cttgcctgggg tcccctcatc cacttgaggg cgcctgaggg ccaggarcag caggcaagga 660
gcctgggtct aggctaaggg ggtkktgcy cacctcctcc ctgaccctta acactcctgt 720
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caagtacact ccacacatgc ataaaggaaa tcaaatgtta tttttaagaa aatggaaaaat 3240
aaaaacttta taaacaccaa aaaaaaaaaa aaaaaccng gggggggggc ggtaacccat 3300
ttcgccata 3309

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&lt;210&gt; 274

&lt;211&gt; 843

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (780)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (833)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 274

```

cgcgagcgagg tgagagggccg cggcgggcagg tccacctggg cttgcgaagg cacagattcc 60
ccgtccacag ctcacgacca gatgcaccag caggagtcca catcgaggac gtcctccggg 120
cactcccacg accagtgacc aggagttaaa ctttggggatg tgcccgtgat gttggaccac 180
aaggacttag aggccgaaat ccacccttg aaaaatgaag aaagaaaatc gcaggaaaat 240
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tcccgggtgcc gagcgggcggc gttttttctt tcattgtttc tctgcctttt tgtggtgttc 360
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atccaagatg ttctttttct ttataaaaac accaacagca gcaacaattt cagccgatcc 540
tgtgtggacg aaggcttttc ctctccctgc acctttgcag ctgctgtgtc gggggccaac 600
gcagcacgct ctgggagwga cctgtggccc aagacgtggc cctcgtggag tgtcgtgtgc 660
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tcattgcagt caactgttgc acaggggaaa ccttggaac cacagccagc agttcagggg 780
gaatgggtcca tctgagcctt ttgtgcagtt gctgatgtgg agttcgatgg ggncccaaac 840
tgt 843

```

&lt;210&gt; 275

&lt;211&gt; 2028

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

```

tcggcacgag gtttttgatt tatggataat ttcttaagag tacacacttt agatacacia 60
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ttgaacctct ttatagcatt gatactagggt gaacagaaat tacctgacta ataatttgtc 180
taacatcata tatcagaatt ttattgtata tgatgaacaa aacttaaaat tttttaaaat 240
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atttaggaaa agttataagg tacaggttga gtatcccttt tccaaaaatg cttgggacaa 480
gaagtatttc agatttcata atttttttca aagtttgaa tatttgcatt atacttacca 540
gttgggcac ccaaatctga aatctgaaat gttccatgag catttccttt gagtgtcatg 600
ttggcactca aaaaggttca acattgagtc cacttaacac ttaggtgtta gaagacctaa 660
ctttctgtaa caattaacct tatactttgt ttgtcatcga atatttgttg aatgcatgtc 720
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ggaagttagt ctaataattc actgcagaaa attgattaag tggtgtcct ttttaattaag 840
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tcaagttcct tagaaattgt tatttaggta taatatcatc ttgtctttga cttagagcttg 960
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```

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ttgctgaatg tgtctagggg ttcattctca gtaatcgaca ttccactagt gccatagtta 1080
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&lt;210&gt; 276

&lt;211&gt; 1455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (759)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1408)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 276

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&lt;210&gt; 277

&lt;211&gt; 1923

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1814)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 277

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gga 1923

<210> 278

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 278

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cagactgggt tctagagagg cagagtcttt aagagtattc atttcttctg gaagggtggag 360  
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<210> 279

<211> 1018

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<400> 279

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ccgtcgcgcc tgccggggcca gctagcttag cgcgctggac gctgggcttc tgcgacgagc 240
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```

<210> 280

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

&lt;400&gt; 280

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ggtttactta atcaggacat gggcctaaga acaaaccttt tcccttcacg ataacatcca 180
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&lt;210&gt; 281

&lt;211&gt; 1755

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

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<210> 282

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<400> 282

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<210> 283

<211> 1556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1339)

<223> n equals a,t,g, or c

<400> 283

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cctcttctcc ctgtcctatc aagacttaca gcaaggtccc aggttgacag ggagac 1556
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<210> 284

<211> 1029

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

<220>  
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 <222> (958)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (972)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1007)  
 <223> n equals a,t,g, or c

<400> 284  
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 cgactactcc gacctggcct tgcctctgca gatccccacg cagaatgcac aggcccgga 180  
 gcttctggag aaggaattca gcaaccttat ctccttaggc acagacaggc ggctggacga 240  
 ggacagcgcc aagtctttca gccgctccc atcctggcgg aagatgttcc gggagaagga 300  
 cctccgaggc gtaactcccg actcagctga gatgttgccc cccaactttc gttcggctgc 360  
 agcgggagcc ctgggctctc cggggctccc tctccgaag ctgcagccag aaggccagac 420  
 ttctgggagt tcccgggcag acggcgttc ggtccggacc tattcctgct agtgcaggcc 480  
 tccaggtgac ctcaactcga cggaagaatc tcccagaggc tgggctgttc cctctcctgc 540  
 ccggactgtg gcctcgccgg ggagagcggg cgggggagct cgcgccgagg actggaccat 600  
 ctgtacagac cagcgggagt gcgcgcgcc gcctcgaca gggccggggc tggaccaaac 660  
 cacatgaact ggactgagag ggggaagaag cggggaggaa gaaatccgc cccaaacgtc 720  
 cgctttcctt ttctctactt tgtaatttat tgatcagttt ctgttgggag acgggtgtcc 780  
 tttaccgcg ggaagggggc ggggcttccc tcccgggccg catgcgnga gargtgctc 840  
 cctccccttt ttctgccc gtcgcggggc ccaagtcttt ccttcttcgt ccgaaaggag 900  
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 ccgtgtttt 1029

<210> 285  
 <211> 1583  
 <212> DNA  
 <213> Homo sapiens

<220>

221

<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1531)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (1557)  
<223> n equals a,t,g, or c

<400> 285  
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gccgagctga ccaacaggac acacagattc ctggagaaag ccaaggcctt gaagatcagt 180  
ggtgtgatcg ggccttaccg tgagactgtg gactcgggtg agaggaaagt cagcgagata 240  
aaagacatcc tggcgagag ccccgagca gagccactga aaaacattgg gaatctcttt 300  
gaggaagcag agaaactgat taaagatgtt acagaaatga tggctcaagt agaagtgaaa 360  
ttatctgaca caacttccca aagcaacagc acagccaaag aactggattc tctacagaca 420  
gaagccgaaa gcctagacaa cactgtgaaa gaacttgctg aacaactgga atttatcaaa 480  
aactcagata ttcgggggtgc cttggatagc attaccaagt atttccagat gtctcttgag 540  
gcagaggaga ggggtgaatgc ctccaccaca gaaccaaca gactgtgga gcagtcagcc 600  
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caagaggagc aggtcgcct ccttgatgaa ctggcaggca agctacaaag cctagacctt 720  
tcagcggstg ccgaaatgac ctgtggaaca ccccagggg cytctctgty cgagaytgaa 780  
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gtcttgagtg ccctggctga agtggacag ctctccaaga tggctctga agcaaaactg 960  
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aaggcaatta aacaagcaga tgaagacatt ncaagggaacc cagaacctgy taacttccsa 1440  
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gggggaggcc gaattttttg gaa 1583

<210> 286  
<211> 1177  
<212> DNA  
<213> Homo sapiens

<400> 286  
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aagayatctc aaaatgttta ccaatgtttt aagaagcttt gtgtgatatt ctccaaatg 120

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tagttacca atataatat gtagaaaagg ctaaatacata cttaatgagc aaattgaagt 180
aagcttttaa agtatatttc tcttttggtg aaaggccaat ggagacattg tgaatttaa 240
tgaacatttg cctcaagatg ttaactataa acacactgca tacaattttc ttctgaataa 300
caaatgaatg cttattgctg catgatgtaa gcaaaaagtca ttattttttcc tattcatttg 360
aaataagtta tggtcttaaaa tgcttttgga gtttatttct caaaattaaa atctgggtcac 420
atgagcttta gtttgttttc tgggttaaaa aataaaaagg tttctcttaa cagtatttcc 480
agtgacaatg caaggtaagt atatcaaagg aaatcaacag ttgtgcttgg gggctttttg 540
ttatgggata ttgatttctt gttttttttc cgtaacattg tctgctgcaa tttaataaaa 600
aattacgaca tttaagata tttcatagac aaaccaaaca aaaatatatg tttttacttt 660
aaagtgaatg ttttctctt cagctgatct aaaaatgaaa gcaaratatc ttatgtagaa 720
atattttgat aatattttta cagtgaagct tcccatgttt ttatgtctta agtttctttg 780
ctgcgtttat gtaggttgca caagaacttt tactcacttg taattgtgcc tcagactttt 840
tgaaagtcta ccttctaaat tgccccgacg atctagattc tacatgttac cattgggtta 900
ttcttggtgct tctgtatatt aaaacttttg ctgtactaag caaatgcaag gttataattt 960
agctaatagt agtttacaga caattctgat gattatgatt tcatttggtt taactaagct 1020
gtactagttc atttcataag gaaatgatac tgtagacaaa tgtaataaaa gcctgtgagt 1080
caagcatcaa gtggtgtttg ttagaaataa actagagatt tttaaaaaaa aaaaaaaaaa 1140
aaaaaaaaa aaaaaaaaaa acccccgggg ggggcc 1177

```

<210> 287

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 287

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aaacaaagga ctatttataa atacagttaa ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtgtttc ttaatttctt ttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaatatt gcaaatggtc aattcgattt taatttctca aaagatactc tgttatccag 300
aagattaaaa tgcctacatt gagtgtctaa aaaaaaaaaa acmactgtga tratktgagc 360

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223

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agaatggcca gtaagttaag cctttttgga tccnggtaat ccagggtatc catttaccat 420
ggaaaaggga ttcccaaac tactggccca gagggaagtt tggtttttn aaatttaagg 480
nggggaaatt ttanccctat aaaatt 506

```

&lt;210&gt; 288

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (3)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (926)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 288

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ttnggccgag cttgggtcat ggcggcgcgc ggcgcgctgc tggatgatgg cgtgagcggc 60
tcggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120
gctgatgatt atcacccgga ggaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
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acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360
gctgagatgc agctcctggt ggtccatctg agcgggtcgt ttgaggatcat ctctggacgc 420
ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtccca gtttgagact 480
ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
gagataattg ctacaattat ggaaacccta aaaaatgaaat gacaatgatt ttgtatcagt 600
ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgttc cagccgcctt 660
gccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
ttaggtgtaa ttttaggaat tatgctggtt catcaggaag cagaggggga gttttaaaag 780
tcaagcttaa attgaagttt aaattcatct ataaccaaat caaatgatca gaggaaattc 840
tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900
cacaataaaa tgaaacttcg ctgtcnaaaa aaaaaaaaaa aaaaaaaaaa 948

```

&lt;210&gt; 289

&lt;211&gt; 1034

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (376)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 289

```

ggcacgagct cgtgccggtt tgacctggag catgggtcct ggaccaaatt gccccgcagc 60
ctgcgcatga gggataagag ggcagacttt gtggttgggt cccttggggg ccacattgtg 120
gccattgggg gccttggaag ccagccatgt ccttggggct ctgtggagag ctttagcctt 180

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gcacggcggc gctgggaggc attgcctgcc atgcccactg cccgctgctc ctgctctagt 240
ctgcaggctg ggccccggct gtttgttatt ggggggtgtg cccagggccc cagtcaa gcc 300
gtggaggcac tgtgtctgcg tgatggggtc tgaaggcttg gtgggagctg tccactggag 360
cagctcattg ccagangmrg ctatttctat ggctcctttt gctgctgagg acactcactg 420
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accattcgtt catgaatcat gcctagctcc atccttgccc tgggacctac taggccttcc 600
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tctggagttg accaggccta cccagttgc cattcctgaa aaatctcagc tgccaggctg 720
cctttagggt cctgttagac ccaggagagt tgagagggtg ggggacacag agagaataga 780
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aaaaaaaaaa aaaa 1034

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<210> 290

<211> 3091

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 290

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attctgatcc tgtgtttgca aaaatatata catgtatata atagttcctc actttttatt 180
catttgtttt cctattacct gtagtaataa tattagttag tacatggaat ttatagcatt 240
agctaccccc aggaacagca cctgacaggc gggggatttt ttttcaagtt gttctacatt 300
tgcataaatt atttctatta ttattcatgt atgttattta tttctgaatc acactagtcc 360
tgtgaaagta caactgcaag gcagaaagtg ttaggatttt gcatctaatt ttcattatca 420
tggtattgat ggacctaaaga aaataaaaaat tagactaagc ccccaaataa gctgcatgca 480
tttgtaacay gattagtaga tttgaatata tagatgtagt attttgggta tctagggtgtt 540
ttatcattat gtaaaggaat taaagtaaag gactttgtag ttgtttttat taaatatgca 600
tatagtagag tgcaaaaaata tagcaaaaat aaaaactaaa ggtagaaaag catttttagat 660
atgccttaat ttagaaactg tgccagggtg ccctcggaaat agatgccagg cagagaccag 720
tgccctgggtg gtgcctcctc ttgtctgccc tcatgaagaa gcttccctca cgtgatgtag 780
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tgtgagagtt tttctgtaga agcagaactg tcagcttggt ccttgaggct tccagaacgt 900
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ggcttgtcca catggtgctc tccatcttcc tccacatcat ggaccacagg tgtgcctgtc 1620
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cacactttta ctgtatttct tcatacttga aattcattct gctattttca tatcagggtta 1920
cagacttata aggggtgcatg ttccctaaag gtgcataatt attcttattc cgtttgctta 1980
tattgctaca gaatgctctg ttttggtgct ttgagttctg cagacccaag aagcagtgtg 2040
gaaattcact gcctgggaca cagtcttata agaattgttg caggtgactt tgtatcagat 2100
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tcctggctat .tttctttttt actttaatgt aaaatgagta taactgtagt gagtaaaatt 3060
cattaaattc caagttttag caaaaaaaaaa a 3091

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&lt;210&gt; 291

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

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aggcatgaag aagagtgtgg gtactgtttc ctccacagcg gccagagtca ggggtggggag 60
tgagtccagt tgagggggaa acagtaccag cactgcgggg catgaagaag agtgtggggc 120
tgccgggtggc cgtgcagtgt gtggctctgc cctggcaaga agagtttgtt ctgcggttca 180
tgccgggaggt ggagcgactg atgacccctg aaaagcagtc atcctgatgg ctctggctcc 240
agaggacctg agactcacac tctctgcagc ccagcctagt cagggcacag ctgccctgct 300
gccacagcaa ggaaatgtcc tgcattggggc agaggcttcc gtgtcctctc ccccaacccc 360
ctgcaagaag cgccgactcc ctgagtctgg acctccatcc ctgctctggt cccctctctt 420
cgtcctgatc cctccacccc catgtggcag cccatgggta tgacatagcc aaggcccaac 480
taacagtcaa gaaacaaaaa aaaaaaaaaa aaaaattc 518

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&lt;210&gt; 292

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc feature  
 <222> (447)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (468)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (475)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (479)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (482)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (489)  
 <223> n equals a,t,g, or c

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 ccaggaaagcc gtgtcagcgg ccggagcggc agctcagcaa gtggtggacc aggccacaga 180  
 ggcgggggcag aaagccatgg accagctggc caagaccacc caggaaacca tcgacaagac 240  
 tgctaaccag gcctctgaca ccttctctgg gatcgggaaa aaattcggcc tcctgaaatg 300  
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 cttccaggcg ccatctagca cagcctggcc ctgatctccg ggcagccacc acctcctcgg 420  
 tctgccccct cattaaaatt cacgttncca aaaaaaaaaa raaagggngg ccgcntagn 480  
 gntccaaagnt tagttacg 498

<210> 293  
 <211> 469  
 <212> DNA  
 <213> Homo sapiens

<400> 293  
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 caagggccttg caggacctga agcaacaggt ggaggggacc gccaggaag ccgccatgga 180  
 ccagctggcc aagaccaccc aggaaccat cgacaagact gctaaccagg cctctgacac 240  
 cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggag acttgggtcg 300

227

gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360  
 agcctggccc tgatctccgg gcagccacca cctcctcggg ctgccccctc attaaaattc 420  
 acgttcccaa aaaaaaaaaa aaaaaaaaaa gggggggccc gtccccatt 469

&lt;210&gt; 294

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (568)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (650)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (652)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (658)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 294

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 ttgttttc 668

&lt;210&gt; 295

&lt;211&gt; 1400

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

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tataaattct actaagttat ttatgacat gaaaagttaa ttatgctata aattttttga 1320
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<210> 296

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (950)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<400> 296

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tgaatggccg gcggggcccc tccacgtccc catccttcga ggggaccag gagacctaca 420
cagtggccca cgaggagaat gtccgctttg tgtccgaagc ctggcagcag gtgcaacagc 480
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agttcctggc gagaatcacc agctgttcct agtggctgct gggagggggc gctgctacac 660
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<210> 297

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<400> 297

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tggagaacaa ggtgatctgc gccctggtcc tgggtgccat gctggccctc ggcaccctgg 180
ccgaggccca gacagagacg tgtacagtgg cccccgtga aagacagaat tgtggttttc 240
ctggtgtcac gccctcccag tgtgcaaata agggtgctg ttctgacgac accgttcgtg 300
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gggtccccctg gtgcttctat cctaatacca tcgacgtccc tccagaagag gagtgtgaat 360
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attagtccca gagctcggct gccacctcca ccggacacct cagacacgct tctgcagctg 480
tgctcggct cacaacacag attgactgct ctgactttga ctactcaaaa ttggcctaaa 540
aattaaaaga gatcgatatt aaaaaaaaaa gaaaaggaaa aaaaagggcg gccgtctaag 600
aggatccaag cttacgtaac gcgtgcatgc gaaggcata gctcttctat agtgtca 657

```

<210> 298

<211> 892

<212> DNA

<213> Homo sapiens

<400> 298

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cctctgctg cccctgtgga ctgatgctat cgcgcaccgt cccacgaccc caccgccgagc 180
tcctgaagcc ggggtctgag cctgcatcac ctctggcctc tcatccccc ctctctgag 240
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tcccaagaac aagatgtgat ggcatctgct gctgaaaccc tgatgaggac caggccccct 780
gcaccgctgt cagcctgagg aattaaagct ttggtgctgg gaaragcaaa aaaaaaaaaa 840
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tc 892

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<210> 299

<211> 1624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1621)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1624)

<223> n equals a,t,g, or c

<400> 299

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```

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gctttcgatt gattggaagg aggtcgggtgc aatgcctgcc aagccgtcgt tggctcgaa 240
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nann 1624

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<210> 300

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 300

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gtccttcgcg aaagtgggtcc ggagagcaa attccggcat gtgttcgggc agccggtcaa 180
gaacgaccag tgctatgagg acattcgcgt gtcccgtgtt acctgggaca gcaccttctg 240
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cccacggccc gaaacgtgct gctcagtgcg ggctgcgaca acgtgggtact catctggaat 600
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```

atcatcgacc cccgtcgggg caccctgggt gcagagcggg agaaggctca tgagggggcc 780
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gacctctgag ggacctctc cccgacct gccagccct ctgctccctc ccagaggag 1860
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacgga cgtcgtggg 1969

```

<210> 301

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1840)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<400> 301

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gagcctggcc gtccgcctgg aggtcaccga cggccccccg gcacccccgc ctactgggac 180

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaana aaaaaaatg 1860
ggaataaaaa taacaaaaaa at 1882

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&lt;210&gt; 302

&lt;211&gt; 2804

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

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<211> 3859

<212> DNA

<213> Homo sapiens

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<222> (889)

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<222> (890)

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<400> 303

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<210> 304

<211> 3378

<212> DNA

<213> Homo sapiens

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<220>

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<222> (1350)

<223> n equals a,t,g, or c

<220>

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<222> (3361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3365)

<223> n equals a,t,g, or c

<400> 304

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<212> DNA  
<213> Homo sapiens

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<210> 306  
<211> 2127  
<212> DNA  
<213> Homo sapiens

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<210> 307

<211> 666

<212> DNA

<213> Homo sapiens

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<222> (588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (664)

<223> n equals a,t,g, or c

<400> 307

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<213> Homo sapiens

<220>

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<220>  
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<222> (2166)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6158)

<223> n equals a,t,g, or c

<400> 309

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&lt;210&gt; 310

&lt;211&gt; 2086

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1763)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1769)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 310

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&lt;210&gt; 311

&lt;211&gt; 2163

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 311

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&lt;210&gt; 312

&lt;211&gt; 1397

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1397)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 312

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tcggttcccc ggccctgcag gggcaggccc aggcagcgtc agcgggagag cttctccccg 1020
accagccagc cccaggatg tgtcgacca gcagctctgc ctggttgcc tgcagtgccg 1080
tggtctgcgt gctctgcagc tgtgagacgg gggcgccctg ggctctcttc ccatccatgt 1140
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cagtcctcag gtgaccccg gctccagca ccctgggtcg ctgtcatctg tgtttagctc 1260
ggggagtgy ccctaagggg gcgaactgac ctcaggcatg tcttgtaact gtagaggcgc 1320
ctgccattaa acgtgtccgc tctgtggtcg acagaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa aaaaaan                                     1397
```

<210> 313

<211> 4106

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 313

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ttactatcag acagccccc aagcagatta cagccaaggt gcaactcagt atactcaagc 60
ccagcaaact cgacaagtga cagccataaa accagccaca ccaagtccag ctaccactac 120
tttctccatc tctctgtat cctccaccgt acagccagta gcagctgagg ctactgttgt 180
gccatcctat actcagagtg ctacttacag taccacagca gttacatatt ctggtacgtc 240
ttattcaggt tatgaagcag cagtgtattc agctgcatct tcctactatc aacagcagca 300
gcagcaacag aagcaggcag cagcagcagc tgtgtgctgt cganactagc tgccctggaca 360
gggaccacct ttactaaaa agcaccattc caaaataaac aactgaaacc aaaacagcct 420
cccaaaccac cacagattca ctattgtgat gttttraga tcagctgtgt ggaccacaga 480
cttataaaga acatttagaa ggacagaaac ataaaaaaaa agaagctgca ttgaaagcct 540
cacaaaatac cagcagcagc aacagttcta ctcgtgggac tcaaaatcag ctacgttgtg 600
agctctgcga tgtgtcttgt acaggagcag atgcgtatgc tgcccacatt cgtggtgcta 660
agcatcagaa agtgggtaag ttacacacaa aacttggtta acccattcca tcaacagaac 720
caaagtgtgt tagccaagct acttcttcaa cagctgtatc tgcttcaaag ccgactgcct 780
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caatgaaggg tcttacgact acaggaaact cgtctcttaa tagcacatct aacactaaag 900
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tgtcagaacc agtcacacct gcatctcttg ctgctttaca gagtgtgtg cagccagtgg 1140
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gacacagact tcaatataaa aaaaaagtaa atccagattt gcaagtagaa gtaaagccta 1320
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cagatggagg ttatcctcat ggtcctccag gccattagg cttcttgga gtccgaccag 1560
gcatgcctcc tcagcctcag gggcctgcac ccttacgtcg tcctgactca tctgatgacc 1620
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agaaaattgt ttctattact gaacgtgctt taaaactcgt ttcagacagt ttgtctgaac 1740
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tgaaaggagt tttcgagtg ggagtattgg caaaaggatt acttctccga ggagatagaa 1860
```

```

atgtcaacct tgttttgctg tgctcagaga aaccttcaaa gacattatta agccgtattg 1920
cagaaaacct acccaaacag cttgctgtta taagccctga gaagtatgac ataaaatgtg 1980
ctgtatctga agcggcaata attttgaatt catgtgtgga acccaaatg caagtcacta 2040
tcacactgac atctccaatt attcgagaag agaactgag ggaaggagat gtaacctcgg 2100
gtatggtgaa agaccaccg gacgtcttgg acaggcaaaa atgccttgac gctctggctg 2160
ctctacgcca cgtaagtgg ttccaggcta gagctaattg tctgcagtcc tgtgtgatta 2220
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gggctatgga gttactagta gagaaagcaa tcagcagtgc ttctagccct cagagccctg 2340
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tctttgtaca gttgactttt tgacatagca aggccaaaaa taactttctg aatatttttt 3540
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aagaacttca tcattgtaca actaacaaca gtaactagcc ctttaattatg gtgacagttc 3660
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ttactgttga tatatgtatg ctctggtaca cagatgtcat tttgttgtca cagcactaca 3960
gtgaaatata caaaaaatga aattcatata atgacttaaa tgtattatat gttagaattg 4020
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taaaaaaaaa aaaaaaaaaa actcga 4106

```

<210> 314

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 314

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agctgcgccc tctcaccctt gccgccccag ccgctgccgc ctgcaccgga cccggagccg 120
ccatgcccga gtgtcccaag tgcaacaagg aggtgtactt cgccgagagg gtgacctctc 180
tgggcaagga ctggcatcgg ccctgcctga agtgcgagaa atgtgggaag acgctgacct 240
ctggggggcca cgctgagcac gaaggcaaac cctactgcaa ccaccctgc tacgcagcca 300
tggttgggcc taaaggcttt gggcggggcg gagccgagag ccacactttc aagtaaacca 360
ggtggtggag accccatcct tggctgcttg cagggccact gtccaggcaa atgccaggcc 420
ttgtccccag atgcccaggg ctcccttggt gccctaatg ctctcagtaa acctgaacac 480
ttggaaaaaa aaaaaanngg gnggcgtttt aaagattcct cgaaggggcc aa 532

```

<210> 315

<211> 1938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1455)

<223> n equals a,t,g, or c

<400> 315

```

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ggcgccccgg cagctacagc tgcaggaggc ggccggcgac cccgacgcgc cgcccaagaa 120
gcggctgcgg gcagccgagg cgcccgaggc ggcgcgggcg gcggcgggcg ccggcagcgg 180
gaaactggag gagcggtctt actcgggtct gtgtgcacc gtgtcctgga cctgcccagg 240
gcctccgtgt accagtgtac taatggtcac ttgatgtgcg ctggctgttt tatccacctt 300
ctagcagatg cccggctgaa ggaggagcag gccacgtgcc ccaattgtcg ttgtgagatc 360
agtaagagcc tctgctgccg gaacctggcc gtggagaaaag ccgtgagcga gctgccttca 420
gagtgtggct tctgcctgcg ccagtttccc cgctccctcc tggagaggca ccagaaagag 480
gaatgccacg gacagggtaa cccagtgcga gtacaaacgc atcggtgcc catggcacgg 540
ccccttccat gagctgacgg tgcacgaggc tgcgtgcgcc cccccacca agacaggcag 600
tgagctgatg gagatcctgg atgggatgga ccagagccac cgcaaggaga tgcagctgta 660

```

```

caacagcatc ttcagcctgc tcagcttcga gaagattggc tacacagagg tccagttccg 720
gccgtaccgc acagacgact tcatacgcgc cctgtactat gagacgcca ggttcacagt 780
gctgaaccag acgtgggtcc tgaaggctcg agtcaacgac tcggagcgta accccaacct 840
gtcctgcaag cgtacgctct ccttccagct cctcctcaag agcaaggta cggcaccgct 900
ggagtgtctc ttcctgtctg tcaagggtcc ctacgacgac gtgaggatca gccccgtcat 960
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gcagcaagga ggccgagagg cacagcgacc ctgccccagc ccttctgtgc agtcaggcgg 1440
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gagcctgcc cgcctccatc tgtgtgccg cacacgtccc ccgaggaaag actcagagac 1680
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aggtagggc ggggtgccc tgccaaccg ccgctcccag ggagacagga ctacgccacc 1800
agggtctcag aggcattttc ggaaagcagg gtgaaattgt ctcttcccag gaaaaagatt 1860
aaactccttg caggctcttg gataagttac acaaaaaaaa aaaaaaaag ggcgccgct 1920
cgcgatctag aactagtc                                     1938

```

<210> 316

<211> 818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<400> 316

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ggcgccgcc ggcgccccca gcagcccgag ccggggcgca cagccggggc gcagncgcgc 60
cccccgccgc gattgacatg atgtttccac aaagcaggca ttcgggctcc tcgcacctac 120
cccagcaact caaattcacc acctcggact cctgcgaccg catcaaagac gaatttcagc 180
tactgcaagc tcagtaccac agcctcaagc tcgaatgtga caagttggcc agtgagaagt 240
cagagatgca gcgtcactat gtgatgtact acgagatgtc ctacggcttg aacatcgaga 300
tgacaaaaca ggctgagatc gtcaaaaggc tgaacgggat ttgtgcccag gtcttgccct 360
acctctccca agagcaccag cagcaggtct tgggagccat tgagagggcc aagcaggtca 420

```

```

ccgctcccg gctgaactct atcatccgac agcagctcca agcccaccag ctgtcccagc 480
tgcaggccct ggcctgccc ttgacccac taccctggg gctgcagccg ccttcgctgc 540
cgggcgtcag cgaggcacc ggcctcctct cgctgtccgc gctgggttcc caggcccacc 600
tctccaagga agacaagaac gggcacgatg gtgacacca ccaggaggat gatggcgaga 660
agtcggatta gcagggggcc gggacagga ggttgggarg ggggacarag gggagacaga 720
ggcacggaga gaaaggaatg tttagcaca gacacagcgg agctcgggat tggctaaayt 780
ccatagtatt atgktggccc gggggggggc ccancan 818

```

&lt;210&gt; 317

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 317

```

gggcacgagc gacatggagc tgttctctgc gggccgcgg gtgctgggtca ccggggcagg 60
caaaggtata gggcgcgga cggtccaggc gctgcacgcg acgggcgcgc ggggtggtggc 120
tgtgagccgg actcaggcgg atcttgacag ccttgtccgc gactgcccgg ggatagaacc 180
cgtgtgcgtg gacctgggtg actgggagc caccgagcgg gcgctgggca gcgtggggccc 240
cgtggacctg ctggtgaaca acgcccgtgt cgccctgctg cagcccttcc tggaggtcac 300
caaggaggcc ttgacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcrca 360
gattgtggcc aggggcttaa tagcccgagg agtcccagg gcatcgtga atgtctccag 420
ccagtgtctc cagcgggcag taactaacca tagcgtctac tgctccacca aggtgtccct 480
ggacatgctg accaagggtg tggccctaga gctcggggcc cacaagatcc gactgaatgc 540
agtaaaccac acagtgggtg tgacgtccat gggccaggcc acctggagtg acccccacaa 600
ggccaagact atgctgaacc gaatccact tggcaagttt gctgaggtag agcacgtggt 660
gaacgccatc ctctttctgc tgagtgaccg aagtggcatg accacgggtt ccactttgcc 720
ggtggaaggg ggcttctggg cctgctgagc tccctccaca cacctcaagc cccatgccgt 780
gctcatccta ccccaatcc ctccaataaa cctgattctg ctgccccaaa aaaacga 837

```

&lt;210&gt; 318

&lt;211&gt; 1448

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (878)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1198)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (1395)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

<222> (1397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1445)

<223> n equals a,t,g, or c

<400> 318

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ctgcaggcag gttgttggtt ttcgaggcca acggggccaa cgggtctaaa gcaggtaggg 180
gcggctgtga agtgaggggg tctaggggag aaaaggggac ggagagcaga ggaaggggtg 240
ttctttggat tcaccatttt accccagccc agaaacaaca aacacccac ttcctgatct 300
cctgaggcgg aaccagtgtc tgggtggcaac gtgttcattg ctgaagcagc ataacaaaga 360
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tggtgagtg c aaacgaggt cttttgtgca tgtktaaaa caggcagtta caagcgtgtc 540
attttcagt gctccatttt aaatcagtct gctgcctcag aatcccgtac gcctgaagg 600
tttaagttgc atgtgcacct gaaactcgta tatgagtatt ttctgtctgt gcttttagag 660
aggaggaatt ctgtaacgac ttttgtttcg ggtaggaag agaattgatct ctttcagtgc 720
accgccactt atgttacctt tttcctttta tttctttgtg tttccagttg caagaacagc 780
aaggaaaagg aagccctctc cagaaccaga aggtgaagtc gggcccccta agatcaacgg 840
agagggccag ccgtggstgt ccacatccac agaggggntc aagatcccca tgactcctac 900
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gcctgaagcg gcccagaatg gccagtcccc catggcagcc ctgatcttag tagcagacaa 1020
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tagcaacagt ccgccctctc cgtcctctat gaaccaaaga aggctgggcc ccagagaggt 1140
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aagataaaca gagggagtag tgagaggctt ttccagtggt gaaaatgcct ctgtgggtca 1380
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aaacntgg                                     1448
```

<210> 319

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 319

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taactttctc ctgactgctt cacctcttac aagtctgcc atcccgaag taatgatgac 120
aaaatactcc aaccttttct tggaaagtca taacatctca ctgactgaac attccagtgt 180
gccagtggaa aaaaatatca ctttagaacg accttctgct gtagaactca catgtcagtt 240
cacaacttct ggggatgtga attcagtaa tgtgacttgg aaaaaagggg atgaacaact 300
taagaattac catgtcagt cccagaaagg catcctgtat acccagtaca agttttccat 360
cattaatagc gaacaactgg gaagctattc ttgtttcttt gaagagggaa aggaacgaag 420
gggcacattt aatttcggag tccctgaagt tcagagaaaa aacaaaccat tgatcactta 480
tgtgggggat tccgttgtct tgggtgtgta atgccgacac tgtgctcctt taaattggac 540
ctggtacagt ggtaatagga gtgtacaggt tcctcttgat gttcacatga atgaaaagta 600
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252

```

tgcgatcaat ggaacaaacg cgaatgaaac aaggcttaag ataatgcagc tttcagaaga 660
cgataaagga tcttattggt gccatgcaat gttccagttg ggcgagagcc aagaaaagtgt 720
tgaactgggt gtgataagtt atttggtgcc cctcaaacca tttcttgtaa tagttgttga 780
agttattctt ttagtggcta ttattctgtt ttgtgaaatg cacacccaaa agaaaaagat 840
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cggcatagaa aataatgccc ccaggcacag aaaaaatgaa gctatgagcc agtgaaagca 960
aaacatcgtg tcaagagtaa tgggaagatg tatagtttct acttcagctt tgtttatgtt 1020
tcctgtgaag aacatctgag tttttatttt tacaaggatg aaaagtttat gtgatatgct 1080
cagcagtagt tttgcaataa tacctgctat ctcagatcca aagatatatt ttccttctgt 1140
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ggataactaa tttcatcttg gtcataaggg gatgcacaga agagatacca gcaaaaccag 1260
ttagtagtac atgaactaat gtcattcaag acctgcgtat aaccaaagaa ttcattaaag 1320
agaaaacttt tttgccattt gccttgkttt tttttctaata tatgcttact atgtgtagaa 1380
atatttgtaa taattttcat gtaatgkta cctctgttca tattggataa aaacatcttt 1440
attaagaaat gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgc 1493

```

&lt;210&gt; 320

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

```

ggcacgagtg gcttctgacc ctttcttccg ccactaccgc cagctcaatg agaagctagt 60
gcagctcatc gaagactata gccttgtctc ctttatccct ctcaacatcc aggacaagga 120
gagcatccag cgagtcctgc aggtgtgga taaagccaat ggatactgtt tcggagccca 180
agagcagcga acttggaagc catgatgtct gccgcaatgg gagccgactt ccatttctct 240
tccacactgg gcatccagga gaagtacctg gcacctcga accagtcagt ggagcaggaa 300
gccatgcagc tgtagcaaca aggtggaccc tggagagcag gatgcataat ccagcactgg 360
ggaaagtgga ggctcctgat gcaggctgca gaccaagag caagtcctcc cagccagagc 420
tggcgggctg gcaaggggat attcagctct gcaaaggact tctggccaaa aagccagaca 480
tggtgccaa gagaacaccc cccatactgt cagtgggtgc cgtgagctct ggccctgcc 540
ccagaaagtc gagcactggg cctagtcagg ctgtgatgaa atgtgctaca atacaagagt 600
ttattttct 609

```

&lt;210&gt; 321

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (458)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 321

```

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gcctcaggaa gcccgaggtc ggcgggtgtra tccgggcgat cgtgcgggca ggcctggcca 180
tgccccggcc cccactaggc ccagtgtctg gtcagagagg cgtttccatc aaccagtttt 240
gcaaggagtt caatgagagg acaaaggaca tcaaggaagg cattcctctg cctaccaaga 300
ttttagttaa gcctgacagg acatttgaaa ttaagattgg acagcccact gtttcctact 360

```

```

tcctgaaggc agcagctggg attgaaaagg gggcccgga aacagggaag gaggtggcag 420
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ttgcctgcag gatgtacccc tg 502

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<210> 322

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<400> 322

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acccttccgg cactcttgga cagccagga tgctgttggc caccctcctc ctccctcctc 180
ttggaggcgc tctgcccatt ccagaccgga ttatttttcc aaatcatgct tgtgaggacc 240
cccagcagt gctcttagaa gtgcagggca ccttacagag gcccttggc cgggacagcc 300
gcacctcccc tgccaactgc acctggctca tcctgggcag caaggaacag actgtcacca 360
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tccagccact gatctccctg tgtgaggcac ctcccagccc tctgcagctg cccgggggca 480
acgtcaccat cacttacagc tatgctgggg ccagagcacc catgggccag ggcttccctg 540
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gctgtgtatc tgctgtccag cgctgtgatg gggttgatgc ctgtggcgat ggctctgatg 660
aagcaggttg cagctcagac cccttccctg gcctgacccc aagaccgct ccctccctg 720
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ctactgtccc tgaagcccca gggccactgc cctcactgcc cctagagcca tcaactattgt 2100
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```

```

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ttacctgagg ggacctgggg gctctactga ggctctccc ctgggggctc tactcatagt 2340
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<210> 323

<211> 1874

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1735)

<223> n equals a,t,g, or c

<400> 323

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tcgggagggg cgggaggagg ggaacgccat atatagacct ggagagccgg gagcgaggag 120
agtggaatcg gtcccgggct cgagtgggtc tctagtccgg cgccagccgc ccggcccage 180
cctcacaggc cttctgtggt gcataccatc cgcctcccag ccatgcgctt cctcctgctt 240
accagcactt gctgcctcct ggccatggcc ctggctgccg aggtgaagaa gccagcggcc 300
ccaggcacag cagagaagct garcccaaaa gcggccacgc tggcagagcg cagtgtctgg 360
ctggccttca gcctgtacca ggccatggcc aaggaccagg cgggtggagaa catcctgctg 420
tcgcctgtgg tgggtggcctc atccctgggg cttgtgtcgc tggggggcaa ggccaccaca 480
gcgtcccagg ccaaggcggg gctgagtgc gagcagytgc gtgatgagga ggtgcacgcg 540
ggsctkggcg agytgttgcg agctttcagc aacagcacgg cgcgcaacgt gacctgaagc 600
tgggcagccg cctgtatggg ccagctcgg tgarcctcgc ggaggacttt gtgcgcagca 660
gcaagcagca ctacaactgc gagcactcca agatcaactt ccgcgacaag cgcagcggcc 720
tgcagtccat caatgagtgg gccgcacaga ccaccgatgg caagctgcct gaggtcacca 780
aggacgtgga gcggacggat ggcgcgctgc tgggtcaacgc catgttcttc aagccgcact 840
gggacgagaa gttccaccac aagatggtgg acaaccgagg cttcatggtg acccgctcgt 900
ataccgttgg ggttacgatg atgcaccgca caggactcta caactactac gacgacgaga 960
aggagaagct gcagatggtg gagatgcccc tggcccacaa gctgtccagc ctcctcatcc 1020
tcatgccgca ccacgtggag cccctggagc gcctggagaa gcttctgacc aaggagcagc 1080
tgaagatctg gatggggaag atgcagaaga aagccgtcgc catctccttg cccaaggggg 1140
tggtagagggt gaccacacgac ctgcagaaac acctggctgg actgggtctg actgaggcca 1200
tcgacaagaa caaggcagac ctgtcacgca tgtcaggcaa gaaggacctg tacctggcca 1260
gcgtgttcca cgctaccgcc ttcgagtggg acacagaggg caaccctttt gaccaggaca 1320
tctacgggag tgaggagctg cgcagtccca agytcttcta cgctgaccac cccttcattt 1380
tcctggttcg agacacccag accggctccc tgctgttcat tgggcgcctg gtccggccca 1440
agggtgacaa gatgcgagat gagctgtagg gccccaggga tggcaggagg cagcccaagg 1500
ctcctgagac acatgggtgc tatggggggg agctgaggta ccgaccttgg atgtgccatg 1560

```

```

gggtgggggt gggaaaacag agcaggcttc ctggatgtct gagcagatct tcccaggcag 1620
aattgactct gtctggatgt gggcccccag ataccgtgat gctgagcccc gacacscac 1680
attctgrggr ccctgggggc agttggcgtg tcttgccctc agcatcctgg gattnaagcc 1740
tgccctcaat cagtgttcat atttatagcc aagtgccttc tcactctgtg gacagaatcg 1800
agctargggg cttcagccca gccctgtgga atggggaccg tcttttcctt accctaccat 1860
cacctcagcc ctaa                                     1874

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&lt;210&gt; 324

&lt;211&gt; 2325

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 324

```

aagaaatgca gatgagtgtg aaacatctgt tctcaattat gttgatctgt gtgcgcagta 60
ctggagcatt taccatttca tgttgagcct caaatgcttg ttttctgggg tccacaaaag 120
acagttttat acattttgag ttgttcataa agtttgtctt gtgatatgcc tggcacttaa 180
agacaaatth ttctggtagt aaaagttcag atttattact atgtcatgaa acacagtaca 240
ttcaaatcaa acggcagttt tctttctaag taaatgattt ccagtcactt aaaagggtggg 300
caagatgaga taaagacatt ttgatacagt aattgttttg gttgggtttt catgtcagtt 360
tatgtttgac taaagctctc ttcataatgca ggtttataaa tttgttaggt ctgttgtccc 420
atgattaaac atgsagtgcc tcctctctga tttaatatc tgcaggtcat tgtaacctgc 480
taggcaaaag cacaacattg cattaaagag gtgatatgct tgctaataatc actgttttaa 540
aggacgtaca gttaaaggaa tattaagtgg gagaaagcct acaaggcttt tagaatatta 600
tcagtatctt catttctggg attcagatgt tatgtgataa aacacatttt ttttggtttt 660
cccagataca ctatatattt gttcaagggt aaatctataa aatgtatata ctttattttg 720
tggttttgct atttataaat ttaatgtttt aactgttgct catttatggt ttgttttggg 780
tggtggtggt catctgtata tcaccatggt aatttgtaat ggaagtgcac ttcgtagtgt 840
atattgttac tgacattaaa atactttata gcattgtctc tgagcaaaag ctagtattta 900
attgtacaaa tgaataagca agttacatgt tattgtttgc tcttgacagg gtaggcctct 960
taaaagaaaa aaaacaactt gtttttctt tatgaatccc ctatgccaaa cacatacctt 1020
ccatgcatga catgagatct gcaaactgga ttttagccac cgtatttatt tagtcaaaaa 1080
aattgtccat tgtagcagac ccgaaaacct ttttgctgtg acatgaaacc atgttattct 1140
tatcttctta aaacacagcc tgggatggaa tggccatggc atttttttca gagaacatcc 1200
tttatctgct atgactgaat ccttaggaaa tgtaagctat aaccctttga ttttcaagaa 1260
ctaccgaata agtgtatgaa gaggtgggtt tttaaaactt caagttggaa tttttatgag 1320
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tgagcttcct gtccggtgtt agaaagtaac tagttaaag ttcattttag aatgtatggt 1560
ttttggggat gaactaagaa ttagttatta gttccaaagg actgagaacc aattttaata 1620
ttttcacatt tataggaaag aaattcatat gtccctgaaa cttctaggac aaaaccaaac 1680
aagtaaggag ggaactgttg caaagccatt tcactgagaa ggggacagaa ggagaaatac 1740
acacatgtat acacaaacag aatggttgag aaaacgtttt aataaaatgt gaggttgta 1800
tgtgtgctgt tatatattha cacttaacct ctaaaattct cttctacagt atctctgtta 1860
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cttgtctgtg gtgctgtttt tttccccact gcagtggact tatgtgtttt tcatgtttag 2040
aaacaaaaag gtttcatgtg attcatgtgt aagatgcaca gtatttgaca tcctgattat 2100
gtaatcccta ttccatctat ccagtcctac acttatgggt ggcctcaaat ctattgcatt 2160
tatgataatg tattatatct agttgagttt aatatttttt tattagcctg taaataaaga 2220
tggcactctc tacattaaaa tgatattgat ctcatTTTTT taaataaaca ttttgtttcc 2280

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ttgacggttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa

2325

&lt;210&gt; 325

&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 325

```
ggcctncggc aaagaagcat agccacgggg ccamagccag gtgtgtcctt gcagttggaa 60
cccaggagtt ccggaagcca aagccccccc acgagggtcc cgcgaagacc tggtagcgga 120
ggagagcccc gagctgctga accctgagcc caggagactg agcccagagt tgaggctact 180
gccctatatg atcactctgg gcgacgccgt gcacaacttc gccgacgggc tggccgtggg 240
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actcgcgggt ggagtcagcg aggagagcga ggcctggatc ctggcagtg ccaccggcct 480
gttcctctac gtagcactct gcgacatgct ccgcgcatg ttgaaagtac gggaccgcg 540
gccctggctc ctcttctgc tgcacaacgt gggcctgctg ggcggctgga ccgtcctgct 600
gctgctgtcc ctgtacgagg atgacatcac cttctgatac cctgccctag tccccacct 660
ttgacttaag atccacacac tcacaaacct acagcccaga aaccagaagc ccctatagag 720
gccccagtc caactccagt aaagacactc ttgtccttgg aaaaaaaaaa aaaaaaaaaa 780
aaaaa
```

785

&lt;210&gt; 326

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (244)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 326

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aatcactaaa ggaaaaayag tagcctgcag taccgggtccg gaattcccgg gtcgaccac 60
gcgtccgacg acagaagggt acggctgcga gaagacgaca gaagggtagc gctgcgagaa 120
gacgacagaa gggtagcggt gcgagaagac kacagaaggg tacggctgcg agaagackac 180
agaagggtag ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagagggg 240
acgn
```

244

&lt;210&gt; 327

&lt;211&gt; 2454

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 327

```

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ggtacagccc gggcgggcggc acaacagcgg cgcgggcatc ggcccagcgg ccggccgccc 120
tcccaccctc ccgcccccgcg gcagccctag ctccctccac ttggctcccc tggctccgct 180
cgctcgggcg ggagctgctc tgtgttttct tctctgattc tccagcgaca ggacccggcg 240
ccggcactga gcaccgccac catggggaag ggggttggaac gtgataagta tgagcctgca 300
gctgtttcag aacaaggtga taaaaagggc aaaaagggca aaaaagacag ggacatggat 360
gaactgaaga aagaagtttc tatggatgat cataaactta gccttgatga acttcatcgt 420
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&lt;210&gt; 328

&lt;211&gt; 505

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (10)

&lt;223&gt; n equals a,t,g, or c

<220>  
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<222> (15)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (300)  
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<220>  
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<222> (302)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<222> (335)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (420)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (422)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (424)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (436)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (440)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (451)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (452)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (454)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (459)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (467)  
<223> n equals a,t,g, or c

<220>  
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<222> (469)  
<223> n equals a,t,g, or c

<220>  
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aaagagaaac tttttccag ctgggtgctg tggctcacac ctgtgaatcc cagccctttg 180  
gnaggctgna gtgggcagat cgcttgagcc caggagtttg agatcagcct gggcaacatg 240  
gtgaantcca tctctgtgaa aaatacaaaa attagccagg tgtggtggtg cgcgcctgtn 300  
antcccagct actagggagg ctgaagggtg gngnnttgnt tnagcccagg aggttgaggc 360  
tgcattnngc tgggattcaa accatgttac tccntgacca ngtnngncct ntttcaaann 420  
angnaagga aggggnaagn aaaggaaaag nngnaggng atgccgntnn tngnntngna 480  
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ttagttgcac tagccatatt tcaaatactt gatggataca tgtggctagt ggctaacata 180
agggatagca cagatataaa acatttcctc ccaaagtgtc gggattacag gcatgagcca 240
ccgcgccccg cctatcatat gaattttgag ggaacacaat catgcagtct gtagcagatg 300
gtaataggct gatatattac acttgttgat gtaanctgga tangtttctt tcttctccaa 360
ggacagcttt ttnaatattt aacantncca ttaatttttc agtttccggg agaattttat 420
aatttaaaat tgccgactta ngganaancc aattggncca accattacaa tanattttta 480
attccgntta aaaaatccca ccngnggggg aattccgctt aaaattttat tttccattat 540
tccaatggc ntnaattta 559
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ctggncagac accgntgnaa cgggnattat ttcaccctca gagagaggct gatcactatg 180  
caaaaacaac tgggaggaaa cccagaagta tattgaatga gcagtgcaga ttagagttgc 240

ccatatacgat gggcancaat tgncaattat tgtgnagcaa tacacacggg gtttccangg 300  
gagntnttaaa tgccttaaag taattaaaan ccgggggcaat nccnttttac ggatgttttg 360  
ctgggggtttc cgtttttaac caacattttt ntnggggncc gnccacaaat tttgggggttg 420  
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aatgtngcca ntgtctgtct gcagattggc taccctaactg ttgcatcagt accccattct 180  
atcatcaacg ggtacnaacg antcctggcc ttgtctgtgg agacggatta caccttccca 240  
cttgctgaan aagtcanggc ttcttggctg atccatctgc cttngtggct gctgcccngt 300  
tggctgctgc caccacaact gtcctgctg ctgctgcnc ccancttaag ttnaaaccca 360  
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tcacggccac cgtcatcctt gtctcggccg ggggaagccta cctggtgtac acagaccggc 240
tctattctcg ctcggacttc aacaactacg tggctgctgt atacaagggtg ctggggactt 300
cctggttggg gctgccgtga gccagtctct gacagacctg gccaaagtaca tgattgggcg 360
tctgaagccc aattctaanc gtctgcgaac ccgattgaac cggtcaatgc tcgtnatgtg 420
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catcaaagtc tactacacct tgagaaaaca aatgaacgan aatctatttt cctcattcat 180  
taccccaaca ataataggac tccctatcgt aattattntc actatgtttc caagcattga 240  
tatncccatc acctaccgcn ctnttcaa 268

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caattcactg gccgtcgttt tacaacgctg tgacnnggaa aacntnnaat ncttccggct 180  
cgtatgttgt gtggaattgt naggcgataa caattcacac aggnancagc tataaccatg 240  
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gttnaacaag ntcaaccatg naagngtttc anctnaatgg gggggncccc gtaacccaat 300  
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<223> n equals a,t,g, or c

<220>  
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<222> (439)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (469)  
<223> n equals a,t,g, or c

<220>  
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<222> (470)  
<223> n equals a,t,g, or c

<220>  
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<222> (471)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (472)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 337

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aattcggcag agnattgaca tcaggaagga cctctatgct aacaatgtcc tatcaggggg 60
caccactatg taccctggca ttgccgaccg aatgcagaag gagatcacgg ccctagcacc 120
cagcaccatg aagatcaaga tcattgcccc tccggaggcg caaatactct gtctggatcg 180
gtggetccat cctggcctct ctgtccacct tccagcagat gtggatcagc aaacagggaa 240
tacgggtgaag ccgggccttc cattgtccac cgcaaagtct ttcttaaaac acttttcctg 300
gttcctnttc tgtcttttag gcacacaact gtggaatgtn cctgtgggaa tttatggccn 360
tttcagtttc tttttccaaa tcattcctag ggccaaagt ttgnattggt tnanccatgg 420
ggttttttta aataaantnt ggaaataggg ttaattggtt aaaaaaaann nnaaaaaaaa 480
ntntgggggg ggggggcccg ntaccc 506
```

<210> 338

<211> 623

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (513)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 338

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gcggaacttg ctactaccag caccatgccc taccaatatc cagcactgac cccggagcag 60
aagaaggagc tgtctgacat cgctcaccgc atcgtggcac ctggcaaggc catcctggct 120
gcagatgagt cactgggag cattgccaag cggctgcagt ccattggcac cgagaacacc 180
gaggagaacc ggcgcttcta ccgccagctg ctgctgacag ctgacgaccg cgtgaacccc 240
tgcattgggg gtgtcatcct cttccatgag acactctacc agaaggcgga tgatgggcgt 300
cccttccccc aagttatcaa atccaagggc ggtgttgtgg gcatcaaggt agacaagggc 360
gtggtccccc tggcagggac aaatggcgag actaccacc aagggttgga tgggctgtct 420
gagcgctgtg ccaggtacaa ngaaggacgg agctgacttc ggccaagtgg cgttgtgtgc 480
ttaagaatgg gggaacacac cccctcannc ctnggcacatc tggaaaatgc caattgntct 540
ggccccgtat gccagtatct ggcancagaa tgcattgggc cattcgggga gtctgananc 600
tcctgatggg ancatgactt gaa 623
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<210> 339

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (157)

<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (171)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (210)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (298)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (317)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (330)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (344)  
<223> n equals a,t,g, or c

<400> 339  
tcgacccacg cgtccgcttc aacatgattt gtcacaatct tatcaataat cattactctg 60  
ttttttatat ttcaactaaa agtatcanaa tatagctttc cagaaaaccc cgaaccaaag 120  
tcactgacta catcaaagtc tactacacct tggaganaac aaatgaacga naatctattt 180  
tcctcattca ttaccccaac aataataggn ctccctatcg taattattat cactatgttt 240  
ccaagcatta tattcccatc acctaccgga ctaatcaata atcgactcat ctccattnca 300  
acaatggatt agtgcantga acatgcaaan gcaaggatta tcnn 344

<210> 340  
<211> 345  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (13)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (31)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (88)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (90)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (128)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (135)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (138)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (146)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (153)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (172)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (173)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (296)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (313)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (339)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (343)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (345)  
<223> n equals a,t,g, or c

<400> 340  
agacangctc tantacgact cactataggg naaagctggt acgcctgcag gtaccgggtcc 60  
ggaattcccg ggtcgaccca cgcgtccngn aggaggggac agctgcgggc gcggggaggg 120  
ggcgccgngc cgcgnggngc catggnggac agnagagccg ggagtccgag annccgggcc 180  
gcagcccag atgtcgccgc catggettcg ccgcagctct gccgcgcgct ggtgtcggcg 240  
caatgggtgg cggaagcgct gcgggccccg cgcgctgggg cagcctctgc agctgntagg 300  
acgcctcctg gtnacctggc cggaagctgg ggggcgcgna cgncn 345

<210> 341  
<211> 170  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (163)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<400> 341

accacgcgt cgcggcacgn tcncgactag ttctagatcg cgnacggccg ctctagagga 60  
tccaagctta cttggacatg catgcnacgt catagctctt ctatagtgtc acctaaattc 120  
aattcactgg cgcgcgtttt acaacgctcg gactgggaan atnntaaaaan 170

<210> 342

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (273)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (328)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (337)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (351)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (366)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (384)  
<223> n equals a,t,g, or c

<400> 342  
aatgacttgg ttgagtactc accagtcaca gaaaagcatc ttacggatgg catgacagta 60  
agagaattat gcagtgtctg cataaccatg agtgataaca ctgcggccaa cttacttctg 120  
acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg ggatcatgta 180  
actcgccttg atcgttggga accggagctg aatgaagcca taccaaacga cgagcgtnac 240  
accacgatgc ctgtagcaat ggcaacaacg ttngcaaact attaactggc ggactactta 300  
ctctagcttc ccggcaacaa tttatagnct tggtgngngc gggtaaagtt ncaaggccca 360  
tttttnggtt tggccttcg gttngtt 387

<210> 343  
<211> 186  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (26)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (64)  
<223> n equals a,t,g, or c

<220>

<221> misc feature  
<222> (71)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (109)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (152)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (153)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (160)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (183)  
<223> n equals a,t,g, or c

<400> 343  
gctgcaggaa attaacagag tctacnagga aatgtacaag actgatctgg agaaagacat 60  
tatntcggac ncatctggtg acttccgcaa gctgatgggt gccctggcna aagggttaaaa 120  
aacagaagaa tgggccgtcc ttgaatatga anngaatan ccacatgccc ggatttcctt 180  
ganccc 186

<210> 344  
<211> 611  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (11)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 344

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tgcaaggnga nactaccctc actaaagga acaaaagctg gagctccacc gcggtgcggc 60
cgctctagaa ctagtgatc ccccgggctg caggaattcg gcacgagctg cggtgggctc 120
cgggaagccg ttcgggctgg ggctgtcggc cgcggggcgg aggcactcgc gcgggggatg 180
gcccactgcg tgaccttggg tcagctgtcc atttcctgtg accatctcat tgacaaggac 240
atcggtccca agtctgacct actctgcgtc cttttacagg atgtnggagg gggcagctgg 300
gctgagcttg gccggactga acgggtgcgg aactgctcaa gccctgagtt ctccaagact 360
ctacagcttg agtaccgctt tgagacagtc cagaagctac gctttggaat ctatgacata 420
gacaacaaga cgccagagct gagggatgat gacttcctag ggggtgctga gtgttcccta 480
ggacagattg tgtccagcca ggtactgact ctccccttga tgctgaagct ggaaaacctg 540
ctgggcgggg gaccatcacg gtctcagctc aggaattaaa ggacaatcgt gtagtaacca 600
tgagggtaga g. 611
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<210> 345

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 345

```
tttccttcta cagtattcct gaatttgacg aatggaaaaa acatatagaa aaccagaaag 60
cctggaaaat aaagtactat aaaggattgg gtactagtac agctaaagaa gcaaaggaat 120
attttgctga tatggaaagg catcgcatct tgtttagata tgctggtcct gaagatgatg 180
```

```

ctgccattac cttggcattt agtaagaaga agattgatga cagaaaagaa tggttaacaa 240
atTTtatgga agaccggaga cagcgtagct acatggctta ccagaggant gattcncctc 300
caactcagac atgaaagatc tataccacnc ntgttgatgg cntt 344

```

<210> 346

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 346

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ggaaaagccc aaggaaaaag caaagaatag caaaaaaaag ggggccaaga aggaagtgg 60
tgggattggc cttctttttt cttcagttag ttttttcccc aacaggttct gatggtcctt 120
tggctaccag caaaccagtc cctgcagaaa agtcaggtct tccagtgggt cctgagaacg 180
gagtagaact ttcaaagag gagctgatcc gcaggaagcg cgaggagttc attcagaagc 240
atggggagggg tatggagaag tccaacaagt ccacgaagtc agatgctcca aaggagaagg 300
gcaaaaaaagc accccgggtg tgggaactgg gtggctgtgc taacaaagaa atgttggtt 360
acagtacttc caccaccaat ggaaccctg angcttgctt tgtctgagga catTAacctt 420
gattccaagg gactgggtct ggggggcact tnnngatctg gactgcacac tntgatgacn 480
aagggttgtg taaantttcc aaacta 506

```

<210> 347

289

<211> 444  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc feature  
<222> (289)  
<223> n equals a,t,g, or c

<400> 347  
cggaaggag accatgttcc gagcggcggc tccggggcag ctccggcggg cggcctcatt 60  
gctacgattt cagagtaccc tggtaatagc tgagcatgca aatgattccc tagcacccat 120  
tactttaaat accattactg cagccacacg ccttgagggt gaagtgtcct gcttagtagc 180  
tggaaccaa tgtgacaagg tggcacaaga tctctgtaa gtagcaggca tagcaaaagt 240  
tctggtggct cagcatgatg tgtacaaagg cctacttcca gaggaactna caccattgat 300  
tttggcaact cagaagcagt tcaattacac acacatctgt gctggagcat ctgccttcgg 360  
aaagaacctt ttgccagag tagcagccaa acttgagggt gccccgattt ctgacatcat 420  
tgcaatcaag tcacctgaca catt 444

<210> 348  
<211> 358  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (19)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (52)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (187)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (280)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (295)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 348

```
ggcagagaag cagaagcgnc tcagttagag tccagcaaaa ggtttgccaa anagtttatg 60
gacagacatg gaatcccaac cgcacaatgg gaaggcttcc accaaacctg aaaggaagcc 120
tgcagcttca ttttgagtgc agacttcctt gctttggttg tgaaaggcca gtggtcttgc 180
agctggnaaa aggggtgatt gttgcaaaga gcaaagaaga ggcctgcaag ctgtacaaga 240
gatcatgcag gtaggctggg tcttctggaa aaatttactn ttgtattcat actgnatgaa 300
ntaccgtttt aagtttnaaa aatgttcctc acattaaggg aaattctntt ttgcaacc 358
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<210> 349

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (301)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<400> 349  
ggcgctttgc tctgtccacc aagattcctg acaccaaagg ctgcttgacg tgcgtgtgg 60  
tgcggaaccc ctacacgggt gccaccttcc tgcgtgccgc cctgcccacc agcctgctcc 120  
tgctgcagtg gtatgagccg ctgcagaagt ttctgctgct gaagaacttc tccagccctc 180  
tgcccanccc agctgggatg ctgganccgc tgggtgctgga tgggaaggag ctgccgcagn 240  
gttttttttg ggccgaaggg cctaaagggc ccggttgccg gttcctgttc caanncctgc 300  
ncctgggagg ttggcnttaa g 321

<210> 350  
<211> 742  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc feature  
<222> (618)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (653)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (658)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (683)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (689)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<400> 350

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ggtcacgctg acccagtgct cggaaaagct ggtgcagctc atcctgcacg aatacaagat 60
cttcaatgca gaagtgcttt tccgagaaga ctgctccccg gacgagttca tcgatgtgat 120
cgtgggcaac cgggtgtaca tgccctgcct gtatgtttat aacaaaatcg accagatctc 180
catggaagag gtggaccgcc tggcccgaaa acccaacagt gtgggtcatca gctgcggcat 240
gaagctgaac ctggactatc tgctggagat gctctgggag tacttggccc tgacctgcat 300
ctacaccaag aagagaggac agaggccaga cttcacagac gccatcattc tccggaaagg 360
ggcctcagtg gagcacgtgg gcaccagcac caagtacagt ccgcagcggg tgggcctgac 420
ccacaccatg gagcatgagg acgtcatcca gatcgtgaag aagtaacggc gcctgccggg 480
ccttccgccc acctgctcgt ctcccttggg aggtggtccc actgggacac acaaacaccc 540
aaacagaaaa atacaaatac acgtaccca agaagggggc cctcaagtct ctgctattta 600
cagaagtttc ttcagtangc agaccaaaaa tgtgttgggc aaaagggtc ggntggangc 660
atthccata agactgagcc ctnttcatng ggggttttga gnttgantgc ttancctgna 720
tntgtgcctc caanccctg ac 742
```

<210> 351

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<400> 351

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aatcaggcgg gactgacggc agatcgtatg ctggtcctgt ccagagccgg gcaggcggca 60
gggctgacgt ttaaccagac cagcgagtca ctcagcgcac tggttaaggc gggggtaagc 120
ggtgaggctc agattgcgtc catcagccag agtgtggcgc gtttctnctc tgcacccggc 180
gtggaggtgg acaaggtcgt tgaagccttc gagggggggc cgtacccatt tgcctatagt 240
aagcgtatta naataattgc cgtgttttaa an 272
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<210> 352

<211> 256

<212> DNA

<213> Homo sapiens

<220>

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<222> (170)

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<220>

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<222> (236)

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<220>

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<222> (248)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

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<222> (252)

<223> n equals a,t,g, or c

<400> 352

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gcagacgtcc agagcagagt cagccagcat gaccgagcgc cgcgtcccct tctcgctcct 60
gcgggggccc agctgggacc ccttcgcga ctggtaccgc catagccgcc tcttcgacca 120
```

ggccttcggg ctgccccggc tgccggagga gtggtcgcag tggtaggcn gcagcagctg 180  
gccaggctac gtgcgcccc tgccccccgc cgcacgcaga gccccgcagt ggccgngccc 240  
gctacagncg nncgct 256

<210> 353  
<211> 592  
<212> DNA  
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<220>  
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<220>  
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acttcactcc tggggccagc aagaccacga gtgcaccgag aggaatgaac aactctggac 180
acaccatctt taagaaccgt aatactcacc gcaagggtct gcaacttcac tcttgaagtc 240
agtgaggcca agaaccatc aattccgtac acatttnggt gactttgaag agactgtcac 300
ctatcaccaa gtggtgagac tattgccaaag cagtgagact attgccaaagt ggtgagacca 360
tcaccaagcg gtgagactat cacctatcgc caagtgggtcc taagtgtgaa cgtgaagtcc 420
ccagccctgc tgctgagcca gttgctgccc tacatggaga acaagaaggg tgctgtcatn 480
ctggncctct ccattgcagc ttataatcca gtagtggcgc tnggtgtcta caatgtcagc 540
aaganagagc tgctggggtc tcactagaac actggcattg ggcttggccc cc 592

```

&lt;210&gt; 354

&lt;211&gt; 539

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (223)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (225)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 354

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cacnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgacg gccgctctag 60
aactagtgga tccccggggc tgcaggaatt cggcacgagt cgtctcaggc tcgtagtctg 120
ccttcaacat gccggaacca gcgaagtccg ctcccgcgcc caagaagggc tcgaagaaag 180
ccgtgactaa ggcgcagaag aaggacggca agaagcgcaa ggnanccgca aggagagcta 240
ctccgtatac gtgtacaagg tgctgaagca ggtccacccc gacaccggca tctcctctaa 300
ggccatggga atcatgaact ctttcgtcaa cgacatcttc gaacgcatcg cgggtgaggc 360
ttcccgcctg gcgcattaca acaagcgctc gaccatcacc tccagggaga tccagacggc 420
cgtgcgcctg ctgctgcccg gggagtggc caagcacgcc gtgtccgagg gcaccaaggc 480
cgtcaccaag tacaccagcg ctaagtaaac ttgccaagga gggactttct ctggaattt 539

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&lt;210&gt; 355

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (296)

&lt;223&gt; n equals a,t,g, or c

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<400> 355  
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atgaggacac actctctgtg gcaactgcat atttctggga gcactttgat aaggacggct 120  
ggtcctctgt gtactcagag tatcgcttcc ctgaagaact cactcagacc ttcattgagct 180  
gcaatctcat cactggaatg ttccagcgac tggacaagct gaggaagaat gccttcgcca 240  
gtgtcatcct ttttgaacc aacaatagca gctccatttc tggagtctgg gtcttncng 300  
gccaggagct tgcctttccg ctgagtcag attggcaagt ggactacgaa gtcatacaca 360  
tggcggaac tggaatctggc aagcgaggag acccanacgc tggttcgaga gtacttttnc 420  
nngngagggg gcctt 435

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<212> DNA  
<213> Homo sapiens

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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (243)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (292)  
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<220>  
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<223> n equals a,t,g, or c

<220>  
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gaagaatgaa cagaagggag agaagattcc tcggtgcttg ccagtttggtg ggaagcccg 120  
gaaccccggtg gaacagagggc agcgcacatcat cggagggcaa aaagccangg ggatagtggg 180  
ggcggtttttg cagtaaggga cccgaacact gatcgctggg tggccacggg catcggtgnc 240  
ctnngggcatc gngtgcagca gggccttatg gcttnttaca ccaaagtnc cnaacttncg 300  
tggccttgga tcaagnnaga cctngganca ggaggactnc cgccccanca ttcactaggt 360  
tcenaatcca gngagcagtt tcgcanaaan canccanaca cancttcccc ctntttngnn 420  
accnncagn gtctctnttn anatnctnc tngcacnna ncccacaacc ccccnncnc 480  
ccccncccc ccccnncnc cc 502

<210> 357  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (45)  
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<220>  
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<222> (236)  
<223> n equals a,t,g, or c

<220>  
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<222> (262)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (293)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (300)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (316)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (339)  
<223> n equals a,t,g, or c

<220>  
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<222> (360)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
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<223> n equals a,t,g, or c

<220>  
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<222> (378)  
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<220>  
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<222> (387)  
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<220>  
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<222> (389)  
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<220>  
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<222> (402)  
<223> n equals a,t,g, or c

<220>  
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<222> (407)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (418)  
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 357

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ctgttcaggc cggagccaca gaccgccgtt gaatgggcgg atgctaatta ctatctccc 120
aaagaatccg cataccagga agggcgctgg gaaacactgc cctttcagcg ggccatcatg 180
aatgcgaatg ggcagcgact acatccgtga gtggaatgtg gtgaagtttg cccgtntcgg 240
ttattccaaa atgctgctgg gngtttatgc ctactttata gggcataagc agnggaacan 300
ccttatttgg ttccncagg atggtggatg cccgagaant ttttgaaaaa cccacgttgn 360
gncgattatt tcgggganat ttccgngnt gttggggttt gnccccntgg gttttggnaa 420
aaaganccgg gtaaaaggtt 440
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<210> 358

<211> 234

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (92)

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<221> misc feature

<222> (162)

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<221> misc feature

<222> (166)

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<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 358

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tgtgatgaag gagatgggag gccatcacat tntagtcctc tttttgctca aggggggcta 120
taaatttttt gctgacctgc tggattacat caaaggactg antagnaaat agtgnataga 180
tccattcctc atgaactgtg gatttttngc agatctgaag agctattgtn atga      234
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<210> 359

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (559)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
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<220>  
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 <222> (588)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (593)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (659)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc feature  
 <222> (667)  
 <223> n equals a,t,g, or c

<400> 359  
 ctgactccag tttgntatnn ccatgattac gccaaagctct aatacgactc actatagggga 60  
 aagctgggtac gcctgcaggt accggtccgg aattcccggg tcgaccacag cgtccggggt 120  
 gtttgaggta cataagaaaa atgtaagggg tgaattcact tattatgaaa tacaagataa 180  
 tacaggggaag atggaagtgg tgggtgcatgg acgactgacc acaatcaact gtgaggaagg 240  
 agataaaactg aaactcacct gctttgaatt ggcaccgaaa agtgggaata ccgngagtt 300  
 gagatctgta attcatagtc acatcaaggt catcaagacc aggaaaaaca agaaagacat 360  
 actcaatcct gattcaagta tggaaacttc accagacttt ttcttctaaa atctggatgt 420  
 cattgacgat aatgtttatg gagataaggt ctaagtgcct aaaaaaatgt acatatacct 480  
 ggttgaaata caacactata catacacacc ancatatata ctagcttggt aatcctatgg 540  
 aaatggggta tntggagnnc ttttttaatt ttcatagnt ttttttnat aanaatggca 600  
 tattttggat ctacaacttc tatgatttga aaaaatacct taacccttat cttttttgng 660  
 aaaaaana 668

<210> 360  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

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<400> 360
caccattacc agcggcggca atcctccggc cttttccctg acaccggacg gaaagctgac 60
cgctaaaaat gcgatatca gtggcagtgt gaatgcgaac tccgggacgc tcagtaatgt 120
gacgatagct gaaaactgta cgataaacgg tacgctgagg gcggaaaaaa tcgtcgggga 180
cattgtaaag gcggcgagcg cggtttttcc gcgccagggtg gaaagcagtg tggactggcc 240
gtcagggtacc cgtactgtca ccgtgaccga tgaccatcct tttgatcgcc agatagtggg 300
gcttccgctg acgtttcgcg gaagtaagcg tactgtcagc ggcaggacaa cgtattcgat 360
gtgttatctg aaagtactga tgaacgggtg ggtgatttat g 401

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<210> 361
<211> 273
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (189)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

```

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<400> 361
accggaacac ggcaactggc ggcggtgcagg tggactcgga gcagttcggc agccagcagg 60
tgagccgtaa ttatcatctg cgcgggcgta ttctgcagggt gccgtcgaac tataaccgcg 120
agacgcggca atacagcggg atctgggacg gaacgnntaa accggcatac agcaacaaca 180
tggcctggng tctgtgggat atgctgaccc atccgcgcta cggcatgggg aaacgncttg 240
gtgcggcgga tgtggataaa tgggcgctgt atg 273

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```

<210> 362
<211> 248
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

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<220>  
<221> misc feature  
<222> (41)  
<223> n equals a,t,g, or c

<220>  
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<222> (52)  
<223> n equals a,t,g, or c

<220>  
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<222> (74)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (145)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (161)  
<223> n equals a,t,g, or c

<220>  
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<222> (185)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (194)  
<223> n equals a,t,g, or c

<220>  
<221> misc feature  
<222> (210)  
<223> n equals a,t,g, or c

<220>  
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<222> (218)  
<223> n equals a,t,g, or c

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cgaatcccát ctctngcaagg agctgctgga aaaagtcgag ctgacggagg ataacgccag 120  
cagactggag gagttttcga aagantggaa ggatgccagt nataagtggg atgccatgtg 180  
ggctntcaaa attnagcaga ccaaagacgn caaacgantt ttattctgct atttagtagt 240

aagatcag

248

&lt;210&gt; 363

&lt;211&gt; 149

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (131)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (137)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (144)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (145)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (147)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 363

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atctggaggc gacggggctg tatcaggtgc cgttgtcagc ggcacagccg ggcgatgtgc 120  
tgctgtgctg ntttggn tca tcannngcg 149

&lt;210&gt; 364

&lt;211&gt; 352

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (4)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; (93)

&lt;223&gt; n equals a,t,g, or c

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<220>  
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tgctctggtt ctcagtcagg cagatgcagc gangaggctc aatgttacac cactggcaag 120  
aatagtagca ttgctgacg ctgctgtaga acctattgat tttccaattg ctctgtata 180  
tgctgcatct atggtnccta aagatgtggg attgaaaaaa gaagatattg caatgtggga 240  
agtaaatgga agcctttagt ctggtgtac tagcaaacat taaaaatgtt ggagattgga 300  
tccccaaaaa gtgaatatnc anggnaggag ctgtttcncn ggggacatcc ca 352

<210> 365  
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<212> DNA  
<213> Homo sapiens

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<222> (260)

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<400> 365

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ggcttgtgcc gctgctggan tgacagcctt ncgaggcttt gctgtctcgg cacggnaggt 120
ctggcaaacc anggacagac caggnacatg ggaccaaagc cggaacctcc tgctcaacgg 180
gaagtcctan cccaccaaag tgcgcctgat ctggggggggc tccctncccc cagtcaagcg 240
gncggcggat gaactggatn nacgccccgg at 272
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<210> 366

<211> 254

<212> DNA

<213> Homo sapiens

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<222> (208)

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<222> (236)

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<222> (244)

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<400> 366

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ggctctacta ggactcacta tanggaaagc tggtagcct gcaggtagcg gtccggaatt 60
cccgggtcga cccacgcgtc cgcttctctg cctagaaggg ataatattat cactcttcgt 120
tataataaca atcaccatct taattaacca ccttacatta gccagcataa cccctatcat 180
ccttcttgta tntgcagcct gtgaagcnc actggggctt atccctttta gttatnatct 240
caantacata cgga                                     254
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<210> 367

<211> 185

<212> DNA

<213> Homo sapiens

<400> 367

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tgcagagaac gttgaatgcc tggaattaat cacattcccc tggttcagag ctgtacgtgg 120
aaaccatgag caaatgatga ttgatggctt atcagagcgt ggaaacgtta atcactggct 180
gctta                                             185
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<210> 368

<211> 458

<212> DNA

<213> Homo sapiens

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<222> (4)

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<220>

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<222> (6)

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<220>

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<222> (15)

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<400> 368  
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ccggagtgag ccttgaacgc ctggacctgg acctcacagc tgacagccag ccacccgtct 120  
tcaaggtctt cccaggcagt accactgagg actacaacct tattgttatn gaacgtggcg 180  
ctgccgctgc acnaccggcc agccagggac tgcgcctgca ggaacccctg gngccccacc 240  
cctggntggn atggccattg tcaaggagga ggagacggag gctgccattg gagccctcc 300  
tactgccact gagggncctg agaccaaacc tgtgcttatn gctcttgagg agggtcctgg 360  
tgctgagggg tcccggctgg actcactagt ggcanaacna ctonggctgg aagtngtagc 420  
tctgagggac tcnegcccag tgttggccgg gacctgat 458

<210> 369  
<211> 288  
<212> DNA  
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<400> 369  
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ccccgcctgc ngccctgttt gcactcggcc tgtagtgccct gcntagggcc cgcngccccg 120  
ccgcccgc aa cagctcgggg gacggcgggg cggcgggcga cggcaccgtg gtggactgtc 180  
ccgtgtgcaa gcaacagtgc ttctccaaag acatcgtgga gaatnatttc atgcgtgana 240  
gtggcagcaa ggctgccacc gacgcccagg atgcgaacca gtgctgca 288

<210> 370  
<211> 292  
<212> DNA  
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<220>  
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<400> 370  
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ntcctccgcc gccgcggact ccggcagctt tatcgccaga ntccctgaac tctcgctttc 120  
tttttaatcc cctgcatcgg ntcaccggcg tgccccacca tgtcagacgc agccgtagac 180  
accagctccg aaatcaccac caaggactta aaggagaaga aggaagtttt ggaaagaggc 240  
agaaaatgga agagacggcc ctncctaacg gggaatgcta atttagggaa at 292

<210> 371  
<211> 477  
<212> DNA  
<213> Homo sapiens

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<220>  
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<220>  
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<220>  
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<220>  
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<220>  
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<222> (451)  
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<400> 371  
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tggttccaag cataaaagaa cggacagatc aattttatgt tgtttacgaa aaggagaatc 120  
tggccagtca tggcaagggt taacaaaaga aagggcaaag cttaattggc ttagtgctga 180  
cttcaataat tgggaaagac tgggaagatg attcaaatga agacatgtct aattttgaat 240  
cgtttctctg aggattcaca agacagtgat gatggnaaaa atgccagatc tgggagtaag 300  
ggaatattgt ccntcacctg ggtttttgag gaaaggaaaa tnaactttct ctggcaagggt 360  
tttcataat ttngaggaa ttccccgagt ttgttagcnc ctaaaaggcn gttatgctcg 420  
tatttgnccc actntaacc ctttttnnca nccggtttgt ttttttaaaa gggcttc 477

<210> 372  
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<212> DNA  
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<222> (430)

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<400> 372

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agaaganatc cttnacccct gtaggaatgt ttttgaaact aaatttnatg aacgtnaaat 120
ttncacagtgg ttattatgaa cttccttgtc gaagttgaaa ggtgaacaac nctnatattg 180
caaataccgt agagcttcag agtgcaagat tctccactgn angttgggca ttcacaaatg 240
ttggatcttt cccaccgtgg gatgaagggt tcagaggcat tgcacccaaa atnaccggg 300
tgaacatacc cagnccaaag cccaggggna cattnatcgn ggacaggccc nccagaattt 360
ggcntgttct ttncacgttg gtaggtgtgg aacttggggg tgaattnatt ncttaaccga 420
attttncggn ttccttaacc gag                                     443

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<210> 373

<211> 464

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 373

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gagacttggg gatggaaccg cacagagccg cgggcccttt gcagctgcga ttttcgccct 120
acgttttcaa cggaggtact atactggcaa ttgctggaga agattttgca attgttgctt 180
ctgatactcg attgagtga gggttttcaa ttcatacgcg ggatagcccc aaatnttaca 240
aattaacaga caaaacagtc attggatgca gcggttttca tggagactgt cttacgctga 300
caaagattat tgaagcaaga ctaaagatgt ataagcattc caataataag gccatgacta 360
cgggggcaat tgctgcaatg ctgtctacaa tcctgtattc aaggcgcttc tttccatact 420
atgttttcaa catcatcggg ggaacttgatg aagaaggaaa gggg                                     464

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<210> 374

<211> 369

<212> DNA

<213> Homo sapiens

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